Comando Condicional SE

Nos exercícios a seguir, siga a lógica do algoritmo e escreva o valor final impresso por ele. No final de tudo, some os valores encontrados, de 3 em 3 conforme mostra a grade de correção.

Ex. 1

```
1: A ← 5
2: B ← 3
3: C ← 3
4: D ← 7
5: se (A > 3) ∧ (B≤ 8)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 1) ∨(D<6)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 2

```
1: A ← 2
2: B ← 7
3: C ← 1
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 1)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 3

```
1: G ← 7
2: B ← 4
3: F ← 1 + 3
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 4

```
1: H ← 4
2: B ← 7
3: J ← 4
4: L ← 2
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 1
9:         senão
10:            K ← 4
11:        fim{se}
12:        L← K + 1
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 5

```
1: M ← 1
2: N ← 7
3: P ← 4
4: se (M < 1)
5:     se (N ≥ 1)
6:         se (P ≤ 3)
7:             M ← M +1
8:         senão
9:             N ← N +5
10:            P ← P +1
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 6

```
1: K ← 2
2: M ← 6
3: H ← 7
4: K ←K + 3
5: M ←M + K
6: se (H < 2)
7:     K← K + 8
8:     M← K + 8
9: senão
10:    H← H + 4
11:    M← 2
12: fim{se}
13: H ← 4
14: K ←K + 2-3
15: M ←M + 6-1
16: escreva K +M +H
```

Ex. 7

```
1: A ← 2
2: B ← 6
3: C ← 1
4: D ← 8
5: se (A > 1) ∧ (B≤ 2)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 5) ∨(D<6)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 8

```
1: A ← 7
2: B ← 3
3: C ← 1
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 8)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 9

```
1: G ← 8
2: B ← 3
3: F ← 5 + 2
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 10

```
1: H ← 4
2: B ← 7
3: J ← 3
4: L ← 8
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 5
9:         senão
10:            K ← 6
11:        fim{se}
12:        L← K + 2
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 11

```
1: M ← 3
2: N ← 4
3: P ← 6
4: se (M < 3)
5:     se (N ≥ 1)
6:         se (P ≤ 2)
7:             M ← M +8
8:         senão
9:             N ← N +5
10:            P ← P +4
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 12

```
1: K ← 4
2: M ← 5
3: H ← 6
4: K ←K + 3
5: M ←M + K
6: se (H < 4)
7:     K← K + 8
8:     M← K + 4
9: senão
10:    H← H + 3
11:    M← 2
12: fim{se}
13: H ← 8
14: K ←K + 4-3
15: M ←M + 5-1
16: escreva K +M +H
```

Ex. 13

```
1: A ← 3
2: B ← 8
3: C ← 5
4: D ← 5
5: se (A > 2) ∧ (B≤ 6)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 7) ∨(D<6)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 14

```
1: A ← 6
2: B ← 4
3: C ← 4
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 8)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 15

```
1: G ← 8
2: B ← 2
3: F ← 6 + 1
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Respostas

1.	2.	3.	SOMA →
4.	5.	6.	SOMA →
7.	8.	9.	SOMA →
10.	11.	12.	SOMA →
13.	14.	15.	SOMA →

75789

Comando Condicional SE

Nos exercícios a seguir, siga a lógica do algoritmo e escreva o valor final impresso por ele. No final de tudo, some os valores encontrados, de 3 em 3 conforme mostra a grade de correção.

Ex. 1

```
1: A ← 1
2: B ← 3
3: C ← 1
4: D ← 6
5: se (A > 5) ∧ (B≤ 5)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 8) ∨(D<7)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 2

```
1: A ← 2
2: B ← 5
3: C ← 4
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 6)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 3

```
1: G ← 3
2: B ← 1
3: F ← 7 + 8
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 4

```
1: H ← 4
2: B ← 3
3: J ← 7
4: L ← 1
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 6
9:         senão
10:            K ← 6
11:        fim{se}
12:        L← K + 5
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 5

```
1: M ← 7
2: N ← 7
3: P ← 4
4: se (M < 4)
5:     se (N ≥ 1)
6:         se (P ≤ 2)
7:             M ← M +7
8:         senão
9:             N ← N +2
10:            P ← P +3
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 6

```
1: K ← 1
2: M ← 4
3: H ← 7
4: K ←K + 5
5: M ←M + K
6: se (H < 6)
7:     K← K + 6
8:     M← K + 7
9: senão
10:    H← H + 8
11:    M← 2
12: fim{se}
13: H ← 5
14: K ←K + 1-3
15: M ←M + 4-1
16: escreva K +M +H
```

Ex. 7

```
1: A ← 5
2: B ← 2
3: C ← 2
4: D ← 7
5: se (A > 1) ∧ (B≤ 1)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 7) ∨(D<5)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 8

```
1: A ← 8
2: B ← 5
3: C ← 2
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 6)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 9

```
1: G ← 7
2: B ← 5
3: F ← 5 + 4
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 10

```
1: H ← 1
2: B ← 2
3: J ← 3
4: L ← 7
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 8
9:         senão
10:            K ← 5
11:        fim{se}
12:        L← K + 7
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 11

```
1: M ← 1
2: N ← 3
3: P ← 1
4: se (M < 2)
5:     se (N ≥ 5)
6:         se (P ≤ 7)
7:             M ← M +3
8:         senão
9:             N ← N +4
10:            P ← P +3
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 12

```
1: K ← 5
2: M ← 1
3: H ← 5
4: K ←K + 3
5: M ←M + K
6: se (H < 3)
7:     K← K + 5
8:     M← K + 2
9: senão
10:    H← H + 6
11:    M← 2
12: fim{se}
13: H ← 5
14: K ←K + 5-3
15: M ←M + 1-1
16: escreva K +M +H
```

Ex. 13

```
1: A ← 8
2: B ← 4
3: C ← 2
4: D ← 1
5: se (A > 5) ∧ (B≤ 3)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 7) ∨(D<6)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 14

```
1: A ← 7
2: B ← 7
3: C ← 8
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 6)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 15

```
1: G ← 7
2: B ← 4
3: F ← 1 + 3
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Respostas

1.	2.	3.	SOMA →
4.	5.	6.	SOMA →
7.	8.	9.	SOMA →
10.	11.	12.	SOMA →
13.	14.	15.	SOMA →

75796

Comando Condicional SE

Nos exercícios a seguir, siga a lógica do algoritmo e escreva o valor final impresso por ele. No final de tudo, some os valores encontrados, de 3 em 3 conforme mostra a grade de correção.

Ex. 1

```
1: A ← 1
2: B ← 4
3: C ← 3
4: D ← 2
5: se (A > 5) ∧ (B≤ 5)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 3) ∨(D<1)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 2

```
1: A ← 6
2: B ← 3
3: C ← 5
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 1)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 3

```
1: G ← 1
2: B ← 1
3: F ← 1 + 2
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 4

```
1: H ← 7
2: B ← 8
3: J ← 7
4: L ← 1
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 4
9:         senão
10:            K ← 3
11:        fim{se}
12:        L← K + 4
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 5

```
1: M ← 3
2: N ← 8
3: P ← 3
4: se (M < 4)
5:     se (N ≥ 5)
6:         se (P ≤ 4)
7:             M ← M +2
8:         senão
9:             N ← N +8
10:            P ← P +5
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 6

```
1: K ← 5
2: M ← 3
3: H ← 6
4: K ←K + 4
5: M ←M + K
6: se (H < 1)
7:     K← K + 8
8:     M← K + 2
9: senão
10:    H← H + 5
11:    M← 2
12: fim{se}
13: H ← 6
14: K ←K + 5-3
15: M ←M + 3-1
16: escreva K +M +H
```

Ex. 7

```
1: A ← 4
2: B ← 5
3: C ← 2
4: D ← 1
5: se (A > 4) ∧ (B≤ 1)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 7) ∨(D<7)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 8

```
1: A ← 3
2: B ← 2
3: C ← 4
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 8)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 9

```
1: G ← 7
2: B ← 1
3: F ← 3 + 6
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 10

```
1: H ← 8
2: B ← 3
3: J ← 6
4: L ← 5
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 4
9:         senão
10:            K ← 5
11:        fim{se}
12:        L← K + 8
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 11

```
1: M ← 1
2: N ← 4
3: P ← 5
4: se (M < 2)
5:     se (N ≥ 6)
6:         se (P ≤ 8)
7:             M ← M +7
8:         senão
9:             N ← N +3
10:            P ← P +6
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 12

```
1: K ← 4
2: M ← 7
3: H ← 4
4: K ←K + 7
5: M ←M + K
6: se (H < 4)
7:     K← K + 7
8:     M← K + 3
9: senão
10:    H← H + 6
11:    M← 2
12: fim{se}
13: H ← 2
14: K ←K + 4-3
15: M ←M + 7-1
16: escreva K +M +H
```

Ex. 13

```
1: A ← 4
2: B ← 2
3: C ← 2
4: D ← 8
5: se (A > 2) ∧ (B≤ 2)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 3) ∨(D<3)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 14

```
1: A ← 3
2: B ← 4
3: C ← 7
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 8)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 15

```
1: G ← 8
2: B ← 6
3: F ← 6 + 2
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Respostas

1.	2.	3.	SOMA →
4.	5.	6.	SOMA →
7.	8.	9.	SOMA →
10.	11.	12.	SOMA →
13.	14.	15.	SOMA →

75808

Comando Condicional SE

Nos exercícios a seguir, siga a lógica do algoritmo e escreva o valor final impresso por ele. No final de tudo, some os valores encontrados, de 3 em 3 conforme mostra a grade de correção.

Ex. 1

```
1: A ← 7
2: B ← 7
3: C ← 8
4: D ← 2
5: se (A > 2) ∧ (B≤ 5)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 8) ∨(D<3)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 2

```
1: A ← 8
2: B ← 5
3: C ← 4
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 5)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 3

```
1: G ← 2
2: B ← 8
3: F ← 8 + 3
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 4

```
1: H ← 5
2: B ← 2
3: J ← 4
4: L ← 7
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 2
9:         senão
10:            K ← 2
11:        fim{se}
12:        L← K + 5
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 5

```
1: M ← 8
2: N ← 5
3: P ← 7
4: se (M < 6)
5:     se (N ≥ 1)
6:         se (P ≤ 5)
7:             M ← M +2
8:         senão
9:             N ← N +8
10:            P ← P +7
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 6

```
1: K ← 8
2: M ← 3
3: H ← 5
4: K ←K + 2
5: M ←M + K
6: se (H < 1)
7:     K← K + 5
8:     M← K + 4
9: senão
10:    H← H + 8
11:    M← 2
12: fim{se}
13: H ← 8
14: K ←K + 8-3
15: M ←M + 3-1
16: escreva K +M +H
```

Ex. 7

```
1: A ← 4
2: B ← 5
3: C ← 1
4: D ← 1
5: se (A > 5) ∧ (B≤ 2)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 8) ∨(D<8)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 8

```
1: A ← 7
2: B ← 8
3: C ← 6
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 6)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 9

```
1: G ← 3
2: B ← 3
3: F ← 6 + 3
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 10

```
1: H ← 7
2: B ← 6
3: J ← 6
4: L ← 2
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 6
9:         senão
10:            K ← 3
11:        fim{se}
12:        L← K + 7
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 11

```
1: M ← 3
2: N ← 3
3: P ← 7
4: se (M < 5)
5:     se (N ≥ 3)
6:         se (P ≤ 1)
7:             M ← M +7
8:         senão
9:             N ← N +6
10:            P ← P +1
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 12

```
1: K ← 6
2: M ← 1
3: H ← 7
4: K ←K + 3
5: M ←M + K
6: se (H < 5)
7:     K← K + 5
8:     M← K + 1
9: senão
10:    H← H + 5
11:    M← 2
12: fim{se}
13: H ← 1
14: K ←K + 6-3
15: M ←M + 1-1
16: escreva K +M +H
```

Ex. 13

```
1: A ← 1
2: B ← 7
3: C ← 4
4: D ← 5
5: se (A > 5) ∧ (B≤ 7)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 4) ∨(D<3)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 14

```
1: A ← 2
2: B ← 2
3: C ← 5
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 6)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 15

```
1: G ← 3
2: B ← 6
3: F ← 1 + 1
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Respostas

1.	2.	3.	SOMA →
4.	5.	6.	SOMA →
7.	8.	9.	SOMA →
10.	11.	12.	SOMA →
13.	14.	15.	SOMA →

75815

Comando Condicional SE

Nos exercícios a seguir, siga a lógica do algoritmo e escreva o valor final impresso por ele. No final de tudo, some os valores encontrados, de 3 em 3 conforme mostra a grade de correção.

Ex. 1

```
1: A ← 3
2: B ← 3
3: C ← 2
4: D ← 2
5: se (A > 2) ∧ (B≤ 4)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 8) ∨(D<5)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 2

```
1: A ← 5
2: B ← 1
3: C ← 3
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 6)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 3

```
1: G ← 4
2: B ← 3
3: F ← 5 + 1
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 4

```
1: H ← 6
2: B ← 3
3: J ← 6
4: L ← 6
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 4
9:         senão
10:            K ← 6
11:        fim{se}
12:        L← K + 8
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 5

```
1: M ← 3
2: N ← 6
3: P ← 4
4: se (M < 4)
5:     se (N ≥ 1)
6:         se (P ≤ 6)
7:             M ← M +4
8:         senão
9:             N ← N +4
10:            P ← P +6
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 6

```
1: K ← 7
2: M ← 8
3: H ← 3
4: K ←K + 5
5: M ←M + K
6: se (H < 1)
7:     K← K + 3
8:     M← K + 5
9: senão
10:    H← H + 8
11:    M← 2
12: fim{se}
13: H ← 7
14: K ←K + 7-3
15: M ←M + 8-1
16: escreva K +M +H
```

Ex. 7

```
1: A ← 4
2: B ← 6
3: C ← 3
4: D ← 2
5: se (A > 5) ∧ (B≤ 6)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 5) ∨(D<6)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 8

```
1: A ← 8
2: B ← 1
3: C ← 2
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 4)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 9

```
1: G ← 8
2: B ← 6
3: F ← 3 + 6
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 10

```
1: H ← 7
2: B ← 7
3: J ← 3
4: L ← 8
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 5
9:         senão
10:            K ← 5
11:        fim{se}
12:        L← K + 7
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 11

```
1: M ← 8
2: N ← 1
3: P ← 8
4: se (M < 8)
5:     se (N ≥ 1)
6:         se (P ≤ 4)
7:             M ← M +2
8:         senão
9:             N ← N +2
10:            P ← P +8
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 12

```
1: K ← 2
2: M ← 5
3: H ← 7
4: K ←K + 6
5: M ←M + K
6: se (H < 3)
7:     K← K + 7
8:     M← K + 1
9: senão
10:    H← H + 2
11:    M← 2
12: fim{se}
13: H ← 2
14: K ←K + 2-3
15: M ←M + 5-1
16: escreva K +M +H
```

Ex. 13

```
1: A ← 3
2: B ← 5
3: C ← 6
4: D ← 6
5: se (A > 3) ∧ (B≤ 5)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 3) ∨(D<8)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 14

```
1: A ← 2
2: B ← 2
3: C ← 2
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 2)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 15

```
1: G ← 5
2: B ← 8
3: F ← 6 + 5
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Respostas

1.	2.	3.	SOMA →
4.	5.	6.	SOMA →
7.	8.	9.	SOMA →
10.	11.	12.	SOMA →
13.	14.	15.	SOMA →

75822

Comando Condicional SE

Nos exercícios a seguir, siga a lógica do algoritmo e escreva o valor final impresso por ele. No final de tudo, some os valores encontrados, de 3 em 3 conforme mostra a grade de correção.

Ex. 1

```
1: A ← 1
2: B ← 5
3: C ← 8
4: D ← 3
5: se (A > 4) ∧ (B≤ 5)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 7) ∨(D<8)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 2

```
1: A ← 2
2: B ← 4
3: C ← 3
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 1)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 3

```
1: G ← 2
2: B ← 3
3: F ← 4 + 7
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 4

```
1: H ← 6
2: B ← 3
3: J ← 8
4: L ← 8
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 8
9:         senão
10:            K ← 3
11:        fim{se}
12:        L← K + 1
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 5

```
1: M ← 6
2: N ← 6
3: P ← 5
4: se (M < 1)
5:     se (N ≥ 2)
6:         se (P ≤ 4)
7:             M ← M +2
8:         senão
9:             N ← N +6
10:            P ← P +3
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 6

```
1: K ← 4
2: M ← 2
3: H ← 5
4: K ←K + 4
5: M ←M + K
6: se (H < 4)
7:     K← K + 2
8:     M← K + 4
9: senão
10:    H← H + 3
11:    M← 2
12: fim{se}
13: H ← 6
14: K ←K + 4-3
15: M ←M + 2-1
16: escreva K +M +H
```

Ex. 7

```
1: A ← 6
2: B ← 6
3: C ← 4
4: D ← 5
5: se (A > 6) ∧ (B≤ 2)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 6) ∨(D<8)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 8

```
1: A ← 1
2: B ← 2
3: C ← 5
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 5)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 9

```
1: G ← 6
2: B ← 4
3: F ← 7 + 6
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 10

```
1: H ← 7
2: B ← 1
3: J ← 2
4: L ← 3
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 2
9:         senão
10:            K ← 5
11:        fim{se}
12:        L← K + 4
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 11

```
1: M ← 1
2: N ← 2
3: P ← 6
4: se (M < 6)
5:     se (N ≥ 1)
6:         se (P ≤ 4)
7:             M ← M +5
8:         senão
9:             N ← N +6
10:            P ← P +4
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 12

```
1: K ← 7
2: M ← 1
3: H ← 4
4: K ←K + 3
5: M ←M + K
6: se (H < 2)
7:     K← K + 1
8:     M← K + 7
9: senão
10:    H← H + 7
11:    M← 2
12: fim{se}
13: H ← 8
14: K ←K + 7-3
15: M ←M + 1-1
16: escreva K +M +H
```

Ex. 13

```
1: A ← 5
2: B ← 5
3: C ← 8
4: D ← 5
5: se (A > 2) ∧ (B≤ 6)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 3) ∨(D<1)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 14

```
1: A ← 5
2: B ← 8
3: C ← 2
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 6)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 15

```
1: G ← 3
2: B ← 8
3: F ← 1 + 1
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Respostas

1.	2.	3.	SOMA →
4.	5.	6.	SOMA →
7.	8.	9.	SOMA →
10.	11.	12.	SOMA →
13.	14.	15.	SOMA →

75839

Comando Condicional SE

Nos exercícios a seguir, siga a lógica do algoritmo e escreva o valor final impresso por ele. No final de tudo, some os valores encontrados, de 3 em 3 conforme mostra a grade de correção.

Ex. 1

```
1: A ← 1
2: B ← 1
3: C ← 3
4: D ← 6
5: se (A > 6) ∧ (B≤ 4)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 2) ∨(D<6)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 2

```
1: A ← 1
2: B ← 2
3: C ← 7
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 2)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 3

```
1: G ← 3
2: B ← 5
3: F ← 8 + 8
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 4

```
1: H ← 7
2: B ← 8
3: J ← 7
4: L ← 2
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 2
9:         senão
10:            K ← 2
11:        fim{se}
12:        L← K + 3
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 5

```
1: M ← 3
2: N ← 5
3: P ← 5
4: se (M < 4)
5:     se (N ≥ 5)
6:         se (P ≤ 1)
7:             M ← M +1
8:         senão
9:             N ← N +3
10:            P ← P +5
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 6

```
1: K ← 1
2: M ← 4
3: H ← 5
4: K ←K + 6
5: M ←M + K
6: se (H < 3)
7:     K← K + 2
8:     M← K + 5
9: senão
10:    H← H + 6
11:    M← 2
12: fim{se}
13: H ← 3
14: K ←K + 1-3
15: M ←M + 4-1
16: escreva K +M +H
```

Ex. 7

```
1: A ← 3
2: B ← 6
3: C ← 7
4: D ← 3
5: se (A > 1) ∧ (B≤ 5)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 1) ∨(D<7)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 8

```
1: A ← 4
2: B ← 4
3: C ← 6
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 6)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 9

```
1: G ← 6
2: B ← 1
3: F ← 8 + 4
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 10

```
1: H ← 8
2: B ← 7
3: J ← 4
4: L ← 4
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 2
9:         senão
10:            K ← 5
11:        fim{se}
12:        L← K + 7
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 11

```
1: M ← 4
2: N ← 8
3: P ← 3
4: se (M < 2)
5:     se (N ≥ 5)
6:         se (P ≤ 6)
7:             M ← M +1
8:         senão
9:             N ← N +8
10:            P ← P +3
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 12

```
1: K ← 8
2: M ← 8
3: H ← 1
4: K ←K + 3
5: M ←M + K
6: se (H < 5)
7:     K← K + 6
8:     M← K + 8
9: senão
10:    H← H + 8
11:    M← 2
12: fim{se}
13: H ← 2
14: K ←K + 8-3
15: M ←M + 8-1
16: escreva K +M +H
```

Ex. 13

```
1: A ← 2
2: B ← 8
3: C ← 1
4: D ← 4
5: se (A > 1) ∧ (B≤ 8)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 8) ∨(D<6)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 14

```
1: A ← 5
2: B ← 2
3: C ← 4
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 8)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 15

```
1: G ← 5
2: B ← 5
3: F ← 3 + 8
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Respostas

1.	2.	3.	SOMA →
4.	5.	6.	SOMA →
7.	8.	9.	SOMA →
10.	11.	12.	SOMA →
13.	14.	15.	SOMA →

75846

Comando Condicional SE

Nos exercícios a seguir, siga a lógica do algoritmo e escreva o valor final impresso por ele. No final de tudo, some os valores encontrados, de 3 em 3 conforme mostra a grade de correção.

Ex. 1

```
1: A ← 3
2: B ← 6
3: C ← 2
4: D ← 3
5: se (A > 2) ∧ (B≤ 6)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 8) ∨(D<7)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 2

```
1: A ← 5
2: B ← 2
3: C ← 1
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 5)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 3

```
1: G ← 3
2: B ← 7
3: F ← 2 + 8
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 4

```
1: H ← 1
2: B ← 1
3: J ← 1
4: L ← 5
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 1
9:         senão
10:            K ← 3
11:        fim{se}
12:        L← K + 8
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 5

```
1: M ← 3
2: N ← 6
3: P ← 1
4: se (M < 5)
5:     se (N ≥ 1)
6:         se (P ≤ 3)
7:             M ← M +7
8:         senão
9:             N ← N +5
10:            P ← P +5
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 6

```
1: K ← 3
2: M ← 5
3: H ← 6
4: K ←K + 3
5: M ←M + K
6: se (H < 4)
7:     K← K + 1
8:     M← K + 4
9: senão
10:    H← H + 4
11:    M← 2
12: fim{se}
13: H ← 6
14: K ←K + 3-3
15: M ←M + 5-1
16: escreva K +M +H
```

Ex. 7

```
1: A ← 8
2: B ← 5
3: C ← 4
4: D ← 3
5: se (A > 4) ∧ (B≤ 4)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 3) ∨(D<7)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 8

```
1: A ← 7
2: B ← 2
3: C ← 1
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 6)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 9

```
1: G ← 4
2: B ← 5
3: F ← 1 + 2
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 10

```
1: H ← 3
2: B ← 7
3: J ← 3
4: L ← 1
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 1
9:         senão
10:            K ← 6
11:        fim{se}
12:        L← K + 7
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 11

```
1: M ← 5
2: N ← 4
3: P ← 8
4: se (M < 6)
5:     se (N ≥ 1)
6:         se (P ≤ 4)
7:             M ← M +4
8:         senão
9:             N ← N +1
10:            P ← P +8
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 12

```
1: K ← 5
2: M ← 5
3: H ← 6
4: K ←K + 1
5: M ←M + K
6: se (H < 3)
7:     K← K + 2
8:     M← K + 3
9: senão
10:    H← H + 6
11:    M← 2
12: fim{se}
13: H ← 7
14: K ←K + 5-3
15: M ←M + 5-1
16: escreva K +M +H
```

Ex. 13

```
1: A ← 3
2: B ← 4
3: C ← 5
4: D ← 8
5: se (A > 5) ∧ (B≤ 6)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 7) ∨(D<8)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 14

```
1: A ← 5
2: B ← 4
3: C ← 4
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 3)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 15

```
1: G ← 6
2: B ← 3
3: F ← 3 + 8
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Respostas

1.	2.	3.	SOMA →
4.	5.	6.	SOMA →
7.	8.	9.	SOMA →
10.	11.	12.	SOMA →
13.	14.	15.	SOMA →

75853

Comando Condicional SE

Nos exercícios a seguir, siga a lógica do algoritmo e escreva o valor final impresso por ele. No final de tudo, some os valores encontrados, de 3 em 3 conforme mostra a grade de correção.

Ex. 1

```
1: A ← 7
2: B ← 7
3: C ← 4
4: D ← 5
5: se (A > 1) ∧ (B≤ 6)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 1) ∨(D<6)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 2

```
1: A ← 7
2: B ← 4
3: C ← 2
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 2)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 3

```
1: G ← 3
2: B ← 5
3: F ← 7 + 3
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 4

```
1: H ← 2
2: B ← 3
3: J ← 2
4: L ← 7
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 8
9:         senão
10:            K ← 6
11:        fim{se}
12:        L← K + 4
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 5

```
1: M ← 5
2: N ← 5
3: P ← 4
4: se (M < 8)
5:     se (N ≥ 4)
6:         se (P ≤ 3)
7:             M ← M +4
8:         senão
9:             N ← N +3
10:            P ← P +4
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 6

```
1: K ← 3
2: M ← 1
3: H ← 7
4: K ←K + 4
5: M ←M + K
6: se (H < 5)
7:     K← K + 7
8:     M← K + 6
9: senão
10:    H← H + 6
11:    M← 2
12: fim{se}
13: H ← 2
14: K ←K + 3-3
15: M ←M + 1-1
16: escreva K +M +H
```

Ex. 7

```
1: A ← 8
2: B ← 3
3: C ← 1
4: D ← 8
5: se (A > 5) ∧ (B≤ 5)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 1) ∨(D<2)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 8

```
1: A ← 4
2: B ← 7
3: C ← 4
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 2)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 9

```
1: G ← 3
2: B ← 1
3: F ← 3 + 5
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 10

```
1: H ← 3
2: B ← 3
3: J ← 8
4: L ← 7
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 1
9:         senão
10:            K ← 4
11:        fim{se}
12:        L← K + 7
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 11

```
1: M ← 2
2: N ← 2
3: P ← 7
4: se (M < 7)
5:     se (N ≥ 6)
6:         se (P ≤ 7)
7:             M ← M +7
8:         senão
9:             N ← N +4
10:            P ← P +4
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 12

```
1: K ← 5
2: M ← 7
3: H ← 4
4: K ←K + 6
5: M ←M + K
6: se (H < 2)
7:     K← K + 8
8:     M← K + 1
9: senão
10:    H← H + 5
11:    M← 2
12: fim{se}
13: H ← 2
14: K ←K + 5-3
15: M ←M + 7-1
16: escreva K +M +H
```

Ex. 13

```
1: A ← 4
2: B ← 1
3: C ← 3
4: D ← 1
5: se (A > 2) ∧ (B≤ 1)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 7) ∨(D<6)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 14

```
1: A ← 4
2: B ← 2
3: C ← 1
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 8)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 15

```
1: G ← 6
2: B ← 6
3: F ← 6 + 5
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Respostas

1.	2.	3.	SOMA →
4.	5.	6.	SOMA →
7.	8.	9.	SOMA →
10.	11.	12.	SOMA →
13.	14.	15.	SOMA →

75860

Comando Condicional SE

Nos exercícios a seguir, siga a lógica do algoritmo e escreva o valor final impresso por ele. No final de tudo, some os valores encontrados, de 3 em 3 conforme mostra a grade de correção.

Ex. 1

```
1: A ← 7
2: B ← 7
3: C ← 4
4: D ← 7
5: se (A > 3) ∧ (B≤ 1)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 3) ∨(D<3)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 2

```
1: A ← 6
2: B ← 7
3: C ← 2
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 2)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 3

```
1: G ← 5
2: B ← 2
3: F ← 1 + 3
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 4

```
1: H ← 2
2: B ← 6
3: J ← 5
4: L ← 5
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 5
9:         senão
10:            K ← 3
11:        fim{se}
12:        L← K + 8
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 5

```
1: M ← 5
2: N ← 4
3: P ← 7
4: se (M < 6)
5:     se (N ≥ 1)
6:         se (P ≤ 1)
7:             M ← M +2
8:         senão
9:             N ← N +8
10:            P ← P +4
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 6

```
1: K ← 3
2: M ← 4
3: H ← 2
4: K ←K + 8
5: M ←M + K
6: se (H < 5)
7:     K← K + 1
8:     M← K + 8
9: senão
10:    H← H + 7
11:    M← 2
12: fim{se}
13: H ← 7
14: K ←K + 3-3
15: M ←M + 4-1
16: escreva K +M +H
```

Ex. 7

```
1: A ← 8
2: B ← 2
3: C ← 4
4: D ← 7
5: se (A > 6) ∧ (B≤ 5)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 8) ∨(D<8)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 8

```
1: A ← 5
2: B ← 4
3: C ← 2
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 7)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 9

```
1: G ← 6
2: B ← 7
3: F ← 2 + 4
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 10

```
1: H ← 8
2: B ← 1
3: J ← 6
4: L ← 1
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 8
9:         senão
10:            K ← 5
11:        fim{se}
12:        L← K + 6
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 11

```
1: M ← 5
2: N ← 5
3: P ← 4
4: se (M < 7)
5:     se (N ≥ 4)
6:         se (P ≤ 8)
7:             M ← M +3
8:         senão
9:             N ← N +3
10:            P ← P +2
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 12

```
1: K ← 1
2: M ← 3
3: H ← 6
4: K ←K + 6
5: M ←M + K
6: se (H < 3)
7:     K← K + 7
8:     M← K + 7
9: senão
10:    H← H + 4
11:    M← 2
12: fim{se}
13: H ← 1
14: K ←K + 1-3
15: M ←M + 3-1
16: escreva K +M +H
```

Ex. 13

```
1: A ← 5
2: B ← 2
3: C ← 8
4: D ← 8
5: se (A > 4) ∧ (B≤ 3)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 4) ∨(D<3)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 14

```
1: A ← 1
2: B ← 7
3: C ← 4
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 1)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 15

```
1: G ← 1
2: B ← 2
3: F ← 2 + 8
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Respostas

1.	2.	3.	SOMA →
4.	5.	6.	SOMA →
7.	8.	9.	SOMA →
10.	11.	12.	SOMA →
13.	14.	15.	SOMA →

75877

Comando Condicional SE

Nos exercícios a seguir, siga a lógica do algoritmo e escreva o valor final impresso por ele. No final de tudo, some os valores encontrados, de 3 em 3 conforme mostra a grade de correção.

Ex. 1

```
1: A ← 7
2: B ← 7
3: C ← 6
4: D ← 3
5: se (A > 2) ∧ (B≤ 1)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 7) ∨(D<7)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 2

```
1: A ← 5
2: B ← 2
3: C ← 4
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 1)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 3

```
1: G ← 6
2: B ← 7
3: F ← 4 + 5
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 4

```
1: H ← 7
2: B ← 2
3: J ← 7
4: L ← 1
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 1
9:         senão
10:            K ← 6
11:        fim{se}
12:        L← K + 5
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 5

```
1: M ← 6
2: N ← 3
3: P ← 2
4: se (M < 5)
5:     se (N ≥ 3)
6:         se (P ≤ 1)
7:             M ← M +3
8:         senão
9:             N ← N +5
10:            P ← P +6
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 6

```
1: K ← 3
2: M ← 1
3: H ← 8
4: K ←K + 7
5: M ←M + K
6: se (H < 1)
7:     K← K + 2
8:     M← K + 2
9: senão
10:    H← H + 8
11:    M← 2
12: fim{se}
13: H ← 1
14: K ←K + 3-3
15: M ←M + 1-1
16: escreva K +M +H
```

Ex. 7

```
1: A ← 8
2: B ← 4
3: C ← 6
4: D ← 3
5: se (A > 3) ∧ (B≤ 2)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 2) ∨(D<2)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 8

```
1: A ← 3
2: B ← 8
3: C ← 2
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 3)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 9

```
1: G ← 7
2: B ← 1
3: F ← 3 + 4
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 10

```
1: H ← 8
2: B ← 1
3: J ← 1
4: L ← 8
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 3
9:         senão
10:            K ← 4
11:        fim{se}
12:        L← K + 7
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 11

```
1: M ← 8
2: N ← 6
3: P ← 3
4: se (M < 5)
5:     se (N ≥ 1)
6:         se (P ≤ 7)
7:             M ← M +3
8:         senão
9:             N ← N +6
10:            P ← P +5
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 12

```
1: K ← 2
2: M ← 5
3: H ← 5
4: K ←K + 2
5: M ←M + K
6: se (H < 2)
7:     K← K + 6
8:     M← K + 5
9: senão
10:    H← H + 4
11:    M← 2
12: fim{se}
13: H ← 2
14: K ←K + 2-3
15: M ←M + 5-1
16: escreva K +M +H
```

Ex. 13

```
1: A ← 6
2: B ← 3
3: C ← 1
4: D ← 1
5: se (A > 4) ∧ (B≤ 2)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 6) ∨(D<4)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 14

```
1: A ← 5
2: B ← 3
3: C ← 7
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 4)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 15

```
1: G ← 6
2: B ← 7
3: F ← 8 + 8
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Respostas

1.	2.	3.	SOMA →
4.	5.	6.	SOMA →
7.	8.	9.	SOMA →
10.	11.	12.	SOMA →
13.	14.	15.	SOMA →

75884

Comando Condicional SE

Nos exercícios a seguir, siga a lógica do algoritmo e escreva o valor final impresso por ele. No final de tudo, some os valores encontrados, de 3 em 3 conforme mostra a grade de correção.

Ex. 1

```
1: A ← 8
2: B ← 8
3: C ← 2
4: D ← 4
5: se (A > 6) ∧ (B≤ 3)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 7) ∨(D<3)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 2

```
1: A ← 4
2: B ← 8
3: C ← 1
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 2)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 3

```
1: G ← 7
2: B ← 4
3: F ← 4 + 8
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 4

```
1: H ← 1
2: B ← 8
3: J ← 5
4: L ← 6
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 4
9:         senão
10:            K ← 2
11:        fim{se}
12:        L← K + 5
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 5

```
1: M ← 6
2: N ← 7
3: P ← 4
4: se (M < 2)
5:     se (N ≥ 3)
6:         se (P ≤ 4)
7:             M ← M +6
8:         senão
9:             N ← N +3
10:            P ← P +8
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 6

```
1: K ← 4
2: M ← 3
3: H ← 2
4: K ←K + 6
5: M ←M + K
6: se (H < 2)
7:     K← K + 5
8:     M← K + 4
9: senão
10:    H← H + 6
11:    M← 2
12: fim{se}
13: H ← 2
14: K ←K + 4-3
15: M ←M + 3-1
16: escreva K +M +H
```

Ex. 7

```
1: A ← 5
2: B ← 8
3: C ← 5
4: D ← 5
5: se (A > 2) ∧ (B≤ 8)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 3) ∨(D<2)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 8

```
1: A ← 8
2: B ← 4
3: C ← 2
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 2)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 9

```
1: G ← 7
2: B ← 6
3: F ← 8 + 8
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 10

```
1: H ← 5
2: B ← 3
3: J ← 6
4: L ← 7
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 5
9:         senão
10:            K ← 3
11:        fim{se}
12:        L← K + 7
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 11

```
1: M ← 3
2: N ← 7
3: P ← 7
4: se (M < 1)
5:     se (N ≥ 1)
6:         se (P ≤ 2)
7:             M ← M +3
8:         senão
9:             N ← N +7
10:            P ← P +5
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 12

```
1: K ← 2
2: M ← 7
3: H ← 1
4: K ←K + 6
5: M ←M + K
6: se (H < 4)
7:     K← K + 5
8:     M← K + 4
9: senão
10:    H← H + 5
11:    M← 2
12: fim{se}
13: H ← 5
14: K ←K + 2-3
15: M ←M + 7-1
16: escreva K +M +H
```

Ex. 13

```
1: A ← 4
2: B ← 3
3: C ← 1
4: D ← 8
5: se (A > 4) ∧ (B≤ 7)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 7) ∨(D<5)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 14

```
1: A ← 2
2: B ← 3
3: C ← 8
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 2)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 15

```
1: G ← 3
2: B ← 5
3: F ← 1 + 4
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Respostas

1.	2.	3.	SOMA →
4.	5.	6.	SOMA →
7.	8.	9.	SOMA →
10.	11.	12.	SOMA →
13.	14.	15.	SOMA →

75989

Comando Condicional SE

Nos exercícios a seguir, siga a lógica do algoritmo e escreva o valor final impresso por ele. No final de tudo, some os valores encontrados, de 3 em 3 conforme mostra a grade de correção.

Ex. 1

```
1: A ← 1
2: B ← 5
3: C ← 2
4: D ← 6
5: se (A > 5) ∧ (B≤ 3)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 5) ∨(D<2)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 2

```
1: A ← 7
2: B ← 5
3: C ← 4
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 2)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 3

```
1: G ← 5
2: B ← 7
3: F ← 6 + 5
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 4

```
1: H ← 8
2: B ← 7
3: J ← 7
4: L ← 2
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 3
9:         senão
10:            K ← 6
11:        fim{se}
12:        L← K + 8
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 5

```
1: M ← 8
2: N ← 5
3: P ← 8
4: se (M < 7)
5:     se (N ≥ 3)
6:         se (P ≤ 4)
7:             M ← M +3
8:         senão
9:             N ← N +1
10:            P ← P +3
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 6

```
1: K ← 2
2: M ← 1
3: H ← 1
4: K ←K + 3
5: M ←M + K
6: se (H < 6)
7:     K← K + 3
8:     M← K + 3
9: senão
10:    H← H + 2
11:    M← 2
12: fim{se}
13: H ← 3
14: K ←K + 2-3
15: M ←M + 1-1
16: escreva K +M +H
```

Ex. 7

```
1: A ← 1
2: B ← 1
3: C ← 7
4: D ← 1
5: se (A > 6) ∧ (B≤ 8)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 5) ∨(D<4)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 8

```
1: A ← 6
2: B ← 1
3: C ← 6
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 5)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 9

```
1: G ← 5
2: B ← 8
3: F ← 5 + 3
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 10

```
1: H ← 7
2: B ← 2
3: J ← 1
4: L ← 1
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 1
9:         senão
10:            K ← 6
11:        fim{se}
12:        L← K + 8
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 11

```
1: M ← 2
2: N ← 1
3: P ← 7
4: se (M < 7)
5:     se (N ≥ 1)
6:         se (P ≤ 7)
7:             M ← M +6
8:         senão
9:             N ← N +5
10:            P ← P +3
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 12

```
1: K ← 1
2: M ← 7
3: H ← 4
4: K ←K + 8
5: M ←M + K
6: se (H < 3)
7:     K← K + 4
8:     M← K + 4
9: senão
10:    H← H + 7
11:    M← 2
12: fim{se}
13: H ← 3
14: K ←K + 1-3
15: M ←M + 7-1
16: escreva K +M +H
```

Ex. 13

```
1: A ← 5
2: B ← 1
3: C ← 6
4: D ← 4
5: se (A > 6) ∧ (B≤ 4)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 1) ∨(D<8)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 14

```
1: A ← 3
2: B ← 3
3: C ← 2
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 1)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 15

```
1: G ← 3
2: B ← 5
3: F ← 1 + 6
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Respostas

1.	2.	3.	SOMA →
4.	5.	6.	SOMA →
7.	8.	9.	SOMA →
10.	11.	12.	SOMA →
13.	14.	15.	SOMA →

75891

Comando Condicional SE

Nos exercícios a seguir, siga a lógica do algoritmo e escreva o valor final impresso por ele. No final de tudo, some os valores encontrados, de 3 em 3 conforme mostra a grade de correção.

Ex. 1

```
1: A ← 5
2: B ← 3
3: C ← 6
4: D ← 7
5: se (A > 2) ∧ (B≤ 4)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 5) ∨(D<3)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 2

```
1: A ← 7
2: B ← 8
3: C ← 7
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 3)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 3

```
1: G ← 6
2: B ← 2
3: F ← 2 + 3
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 4

```
1: H ← 3
2: B ← 8
3: J ← 5
4: L ← 2
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 6
9:         senão
10:            K ← 6
11:        fim{se}
12:        L← K + 4
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 5

```
1: M ← 1
2: N ← 4
3: P ← 7
4: se (M < 2)
5:     se (N ≥ 3)
6:         se (P ≤ 2)
7:             M ← M +4
8:         senão
9:             N ← N +8
10:            P ← P +8
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 6

```
1: K ← 3
2: M ← 3
3: H ← 8
4: K ←K + 3
5: M ←M + K
6: se (H < 4)
7:     K← K + 4
8:     M← K + 2
9: senão
10:    H← H + 5
11:    M← 2
12: fim{se}
13: H ← 7
14: K ←K + 3-3
15: M ←M + 3-1
16: escreva K +M +H
```

Ex. 7

```
1: A ← 1
2: B ← 5
3: C ← 4
4: D ← 6
5: se (A > 4) ∧ (B≤ 3)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 6) ∨(D<8)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 8

```
1: A ← 8
2: B ← 6
3: C ← 2
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 5)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 9

```
1: G ← 2
2: B ← 6
3: F ← 5 + 5
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 10

```
1: H ← 8
2: B ← 4
3: J ← 7
4: L ← 5
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 1
9:         senão
10:            K ← 4
11:        fim{se}
12:        L← K + 4
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 11

```
1: M ← 6
2: N ← 2
3: P ← 8
4: se (M < 4)
5:     se (N ≥ 5)
6:         se (P ≤ 4)
7:             M ← M +5
8:         senão
9:             N ← N +5
10:            P ← P +4
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 12

```
1: K ← 7
2: M ← 5
3: H ← 5
4: K ←K + 1
5: M ←M + K
6: se (H < 6)
7:     K← K + 4
8:     M← K + 8
9: senão
10:    H← H + 7
11:    M← 2
12: fim{se}
13: H ← 8
14: K ←K + 7-3
15: M ←M + 5-1
16: escreva K +M +H
```

Ex. 13

```
1: A ← 3
2: B ← 2
3: C ← 5
4: D ← 6
5: se (A > 1) ∧ (B≤ 1)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 7) ∨(D<2)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 14

```
1: A ← 6
2: B ← 6
3: C ← 4
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 2)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 15

```
1: G ← 5
2: B ← 8
3: F ← 6 + 6
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Respostas

1.	2.	3.	SOMA →
4.	5.	6.	SOMA →
7.	8.	9.	SOMA →
10.	11.	12.	SOMA →
13.	14.	15.	SOMA →

75903

Comando Condicional SE

Nos exercícios a seguir, siga a lógica do algoritmo e escreva o valor final impresso por ele. No final de tudo, some os valores encontrados, de 3 em 3 conforme mostra a grade de correção.

Ex. 1

```
1: A ← 6
2: B ← 8
3: C ← 4
4: D ← 3
5: se (A > 5) ∧ (B≤ 4)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 5) ∨(D<5)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 2

```
1: A ← 1
2: B ← 7
3: C ← 6
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 4)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 3

```
1: G ← 3
2: B ← 6
3: F ← 1 + 4
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 4

```
1: H ← 4
2: B ← 2
3: J ← 4
4: L ← 8
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 5
9:         senão
10:            K ← 2
11:        fim{se}
12:        L← K + 7
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 5

```
1: M ← 4
2: N ← 5
3: P ← 4
4: se (M < 8)
5:     se (N ≥ 4)
6:         se (P ≤ 1)
7:             M ← M +2
8:         senão
9:             N ← N +4
10:            P ← P +5
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 6

```
1: K ← 3
2: M ← 8
3: H ← 2
4: K ←K + 5
5: M ←M + K
6: se (H < 6)
7:     K← K + 2
8:     M← K + 8
9: senão
10:    H← H + 3
11:    M← 2
12: fim{se}
13: H ← 6
14: K ←K + 3-3
15: M ←M + 8-1
16: escreva K +M +H
```

Ex. 7

```
1: A ← 1
2: B ← 7
3: C ← 1
4: D ← 6
5: se (A > 2) ∧ (B≤ 3)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 7) ∨(D<7)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 8

```
1: A ← 5
2: B ← 4
3: C ← 7
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 4)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 9

```
1: G ← 6
2: B ← 7
3: F ← 3 + 4
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 10

```
1: H ← 1
2: B ← 1
3: J ← 7
4: L ← 1
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 4
9:         senão
10:            K ← 5
11:        fim{se}
12:        L← K + 5
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 11

```
1: M ← 8
2: N ← 1
3: P ← 1
4: se (M < 6)
5:     se (N ≥ 4)
6:         se (P ≤ 2)
7:             M ← M +6
8:         senão
9:             N ← N +5
10:            P ← P +7
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 12

```
1: K ← 7
2: M ← 4
3: H ← 1
4: K ←K + 7
5: M ←M + K
6: se (H < 5)
7:     K← K + 2
8:     M← K + 7
9: senão
10:    H← H + 4
11:    M← 2
12: fim{se}
13: H ← 4
14: K ←K + 7-3
15: M ←M + 4-1
16: escreva K +M +H
```

Ex. 13

```
1: A ← 1
2: B ← 4
3: C ← 6
4: D ← 2
5: se (A > 2) ∧ (B≤ 4)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 1) ∨(D<4)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 14

```
1: A ← 5
2: B ← 7
3: C ← 4
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 4)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 15

```
1: G ← 3
2: B ← 1
3: F ← 6 + 3
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Respostas

1.	2.	3.	SOMA →
4.	5.	6.	SOMA →
7.	8.	9.	SOMA →
10.	11.	12.	SOMA →
13.	14.	15.	SOMA →

75910

Comando Condicional SE

Nos exercícios a seguir, siga a lógica do algoritmo e escreva o valor final impresso por ele. No final de tudo, some os valores encontrados, de 3 em 3 conforme mostra a grade de correção.

Ex. 1

```
1: A ← 7
2: B ← 2
3: C ← 7
4: D ← 5
5: se (A > 2) ∧ (B≤ 3)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 6) ∨(D<4)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 2

```
1: A ← 3
2: B ← 1
3: C ← 4
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 6)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 3

```
1: G ← 2
2: B ← 2
3: F ← 8 + 4
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 4

```
1: H ← 6
2: B ← 4
3: J ← 4
4: L ← 4
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 5
9:         senão
10:            K ← 2
11:        fim{se}
12:        L← K + 8
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 5

```
1: M ← 3
2: N ← 8
3: P ← 6
4: se (M < 3)
5:     se (N ≥ 6)
6:         se (P ≤ 5)
7:             M ← M +5
8:         senão
9:             N ← N +6
10:            P ← P +1
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 6

```
1: K ← 5
2: M ← 8
3: H ← 6
4: K ←K + 3
5: M ←M + K
6: se (H < 1)
7:     K← K + 6
8:     M← K + 5
9: senão
10:    H← H + 5
11:    M← 2
12: fim{se}
13: H ← 1
14: K ←K + 5-3
15: M ←M + 8-1
16: escreva K +M +H
```

Ex. 7

```
1: A ← 2
2: B ← 4
3: C ← 5
4: D ← 5
5: se (A > 1) ∧ (B≤ 4)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 8) ∨(D<2)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 8

```
1: A ← 3
2: B ← 5
3: C ← 5
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 4)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 9

```
1: G ← 4
2: B ← 4
3: F ← 4 + 8
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 10

```
1: H ← 5
2: B ← 4
3: J ← 3
4: L ← 7
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 3
9:         senão
10:            K ← 5
11:        fim{se}
12:        L← K + 5
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 11

```
1: M ← 7
2: N ← 2
3: P ← 1
4: se (M < 6)
5:     se (N ≥ 3)
6:         se (P ≤ 3)
7:             M ← M +7
8:         senão
9:             N ← N +8
10:            P ← P +7
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 12

```
1: K ← 5
2: M ← 5
3: H ← 1
4: K ←K + 1
5: M ←M + K
6: se (H < 6)
7:     K← K + 2
8:     M← K + 7
9: senão
10:    H← H + 3
11:    M← 2
12: fim{se}
13: H ← 4
14: K ←K + 5-3
15: M ←M + 5-1
16: escreva K +M +H
```

Ex. 13

```
1: A ← 7
2: B ← 1
3: C ← 1
4: D ← 3
5: se (A > 4) ∧ (B≤ 5)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 4) ∨(D<8)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 14

```
1: A ← 7
2: B ← 5
3: C ← 6
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 1)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 15

```
1: G ← 3
2: B ← 5
3: F ← 2 + 3
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Respostas

1.	2.	3.	SOMA →
4.	5.	6.	SOMA →
7.	8.	9.	SOMA →
10.	11.	12.	SOMA →
13.	14.	15.	SOMA →

75927

Comando Condicional SE

Nos exercícios a seguir, siga a lógica do algoritmo e escreva o valor final impresso por ele. No final de tudo, some os valores encontrados, de 3 em 3 conforme mostra a grade de correção.

Ex. 1

```
1: A ← 1
2: B ← 6
3: C ← 8
4: D ← 7
5: se (A > 1) ∧ (B≤ 6)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 1) ∨(D<1)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 2

```
1: A ← 3
2: B ← 5
3: C ← 7
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 4)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 3

```
1: G ← 7
2: B ← 4
3: F ← 8 + 1
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 4

```
1: H ← 2
2: B ← 2
3: J ← 4
4: L ← 2
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 8
9:         senão
10:            K ← 3
11:        fim{se}
12:        L← K + 6
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 5

```
1: M ← 7
2: N ← 5
3: P ← 8
4: se (M < 1)
5:     se (N ≥ 6)
6:         se (P ≤ 5)
7:             M ← M +4
8:         senão
9:             N ← N +4
10:            P ← P +5
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 6

```
1: K ← 1
2: M ← 7
3: H ← 4
4: K ←K + 3
5: M ←M + K
6: se (H < 4)
7:     K← K + 8
8:     M← K + 1
9: senão
10:    H← H + 2
11:    M← 2
12: fim{se}
13: H ← 8
14: K ←K + 1-3
15: M ←M + 7-1
16: escreva K +M +H
```

Ex. 7

```
1: A ← 1
2: B ← 3
3: C ← 4
4: D ← 6
5: se (A > 6) ∧ (B≤ 7)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 5) ∨(D<5)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 8

```
1: A ← 8
2: B ← 8
3: C ← 5
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 1)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 9

```
1: G ← 6
2: B ← 3
3: F ← 6 + 7
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 10

```
1: H ← 8
2: B ← 7
3: J ← 7
4: L ← 1
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 8
9:         senão
10:            K ← 4
11:        fim{se}
12:        L← K + 5
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 11

```
1: M ← 4
2: N ← 7
3: P ← 1
4: se (M < 6)
5:     se (N ≥ 5)
6:         se (P ≤ 3)
7:             M ← M +1
8:         senão
9:             N ← N +7
10:            P ← P +4
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 12

```
1: K ← 2
2: M ← 5
3: H ← 6
4: K ←K + 4
5: M ←M + K
6: se (H < 3)
7:     K← K + 5
8:     M← K + 2
9: senão
10:    H← H + 4
11:    M← 2
12: fim{se}
13: H ← 5
14: K ←K + 2-3
15: M ←M + 5-1
16: escreva K +M +H
```

Ex. 13

```
1: A ← 1
2: B ← 8
3: C ← 2
4: D ← 5
5: se (A > 6) ∧ (B≤ 7)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 6) ∨(D<5)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 14

```
1: A ← 4
2: B ← 3
3: C ← 1
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 5)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 15

```
1: G ← 4
2: B ← 4
3: F ← 4 + 5
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Respostas

1.	2.	3.	SOMA →
4.	5.	6.	SOMA →
7.	8.	9.	SOMA →
10.	11.	12.	SOMA →
13.	14.	15.	SOMA →

75934

Comando Condicional SE

Nos exercícios a seguir, siga a lógica do algoritmo e escreva o valor final impresso por ele. No final de tudo, some os valores encontrados, de 3 em 3 conforme mostra a grade de correção.

Ex. 1

```
1: A ← 6
2: B ← 1
3: C ← 8
4: D ← 5
5: se (A > 2) ∧ (B≤ 7)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 3) ∨(D<6)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 2

```
1: A ← 4
2: B ← 7
3: C ← 7
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 2)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 3

```
1: G ← 3
2: B ← 3
3: F ← 3 + 8
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 4

```
1: H ← 7
2: B ← 8
3: J ← 5
4: L ← 4
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 8
9:         senão
10:            K ← 2
11:        fim{se}
12:        L← K + 7
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 5

```
1: M ← 6
2: N ← 3
3: P ← 5
4: se (M < 4)
5:     se (N ≥ 3)
6:         se (P ≤ 7)
7:             M ← M +8
8:         senão
9:             N ← N +1
10:            P ← P +5
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 6

```
1: K ← 5
2: M ← 7
3: H ← 2
4: K ←K + 5
5: M ←M + K
6: se (H < 3)
7:     K← K + 5
8:     M← K + 4
9: senão
10:    H← H + 7
11:    M← 2
12: fim{se}
13: H ← 6
14: K ←K + 5-3
15: M ←M + 7-1
16: escreva K +M +H
```

Ex. 7

```
1: A ← 3
2: B ← 4
3: C ← 6
4: D ← 2
5: se (A > 4) ∧ (B≤ 5)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 7) ∨(D<3)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 8

```
1: A ← 4
2: B ← 8
3: C ← 7
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 3)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 9

```
1: G ← 1
2: B ← 3
3: F ← 1 + 1
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 10

```
1: H ← 4
2: B ← 8
3: J ← 7
4: L ← 3
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 2
9:         senão
10:            K ← 2
11:        fim{se}
12:        L← K + 7
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 11

```
1: M ← 3
2: N ← 6
3: P ← 4
4: se (M < 3)
5:     se (N ≥ 2)
6:         se (P ≤ 7)
7:             M ← M +6
8:         senão
9:             N ← N +7
10:            P ← P +2
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 12

```
1: K ← 6
2: M ← 6
3: H ← 8
4: K ←K + 7
5: M ←M + K
6: se (H < 3)
7:     K← K + 3
8:     M← K + 8
9: senão
10:    H← H + 1
11:    M← 2
12: fim{se}
13: H ← 4
14: K ←K + 6-3
15: M ←M + 6-1
16: escreva K +M +H
```

Ex. 13

```
1: A ← 7
2: B ← 4
3: C ← 6
4: D ← 8
5: se (A > 1) ∧ (B≤ 2)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 4) ∨(D<4)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 14

```
1: A ← 1
2: B ← 2
3: C ← 3
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 6)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 15

```
1: G ← 6
2: B ← 5
3: F ← 5 + 3
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Respostas

1.	2.	3.	SOMA →
4.	5.	6.	SOMA →
7.	8.	9.	SOMA →
10.	11.	12.	SOMA →
13.	14.	15.	SOMA →

75941

Comando Condicional SE

Nos exercícios a seguir, siga a lógica do algoritmo e escreva o valor final impresso por ele. No final de tudo, some os valores encontrados, de 3 em 3 conforme mostra a grade de correção.

Ex. 1

```
1: A ← 3
2: B ← 8
3: C ← 2
4: D ← 4
5: se (A > 3) ∧ (B≤ 1)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 4) ∨(D<5)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 2

```
1: A ← 5
2: B ← 5
3: C ← 5
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 3)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 3

```
1: G ← 3
2: B ← 7
3: F ← 3 + 3
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 4

```
1: H ← 8
2: B ← 2
3: J ← 4
4: L ← 1
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 1
9:         senão
10:            K ← 3
11:        fim{se}
12:        L← K + 4
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 5

```
1: M ← 1
2: N ← 4
3: P ← 3
4: se (M < 5)
5:     se (N ≥ 6)
6:         se (P ≤ 5)
7:             M ← M +6
8:         senão
9:             N ← N +4
10:            P ← P +2
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 6

```
1: K ← 6
2: M ← 7
3: H ← 3
4: K ←K + 4
5: M ←M + K
6: se (H < 4)
7:     K← K + 5
8:     M← K + 4
9: senão
10:    H← H + 5
11:    M← 2
12: fim{se}
13: H ← 5
14: K ←K + 6-3
15: M ←M + 7-1
16: escreva K +M +H
```

Ex. 7

```
1: A ← 2
2: B ← 4
3: C ← 2
4: D ← 6
5: se (A > 2) ∧ (B≤ 4)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 1) ∨(D<6)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 8

```
1: A ← 3
2: B ← 6
3: C ← 5
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 5)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 9

```
1: G ← 2
2: B ← 7
3: F ← 2 + 7
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 10

```
1: H ← 2
2: B ← 8
3: J ← 5
4: L ← 7
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 1
9:         senão
10:            K ← 4
11:        fim{se}
12:        L← K + 5
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 11

```
1: M ← 7
2: N ← 1
3: P ← 1
4: se (M < 7)
5:     se (N ≥ 6)
6:         se (P ≤ 3)
7:             M ← M +5
8:         senão
9:             N ← N +5
10:            P ← P +6
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 12

```
1: K ← 3
2: M ← 3
3: H ← 6
4: K ←K + 4
5: M ←M + K
6: se (H < 1)
7:     K← K + 2
8:     M← K + 4
9: senão
10:    H← H + 7
11:    M← 2
12: fim{se}
13: H ← 2
14: K ←K + 3-3
15: M ←M + 3-1
16: escreva K +M +H
```

Ex. 13

```
1: A ← 7
2: B ← 7
3: C ← 8
4: D ← 6
5: se (A > 4) ∧ (B≤ 2)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 6) ∨(D<8)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 14

```
1: A ← 1
2: B ← 5
3: C ← 3
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 2)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 15

```
1: G ← 6
2: B ← 1
3: F ← 7 + 2
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Respostas

1.	2.	3.	SOMA →
4.	5.	6.	SOMA →
7.	8.	9.	SOMA →
10.	11.	12.	SOMA →
13.	14.	15.	SOMA →

75958

Comando Condicional SE

Nos exercícios a seguir, siga a lógica do algoritmo e escreva o valor final impresso por ele. No final de tudo, some os valores encontrados, de 3 em 3 conforme mostra a grade de correção.

Ex. 1

```
1: A ← 8
2: B ← 7
3: C ← 2
4: D ← 6
5: se (A > 5) ∧ (B≤ 6)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 8) ∨(D<5)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 2

```
1: A ← 2
2: B ← 8
3: C ← 7
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 7)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 3

```
1: G ← 8
2: B ← 3
3: F ← 6 + 3
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 4

```
1: H ← 4
2: B ← 8
3: J ← 6
4: L ← 3
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 7
9:         senão
10:            K ← 1
11:        fim{se}
12:        L← K + 7
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 5

```
1: M ← 5
2: N ← 3
3: P ← 7
4: se (M < 1)
5:     se (N ≥ 6)
6:         se (P ≤ 6)
7:             M ← M +7
8:         senão
9:             N ← N +7
10:            P ← P +5
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 6

```
1: K ← 8
2: M ← 6
3: H ← 8
4: K ←K + 3
5: M ←M + K
6: se (H < 4)
7:     K← K + 8
8:     M← K + 7
9: senão
10:    H← H + 6
11:    M← 2
12: fim{se}
13: H ← 2
14: K ←K + 8-3
15: M ←M + 6-1
16: escreva K +M +H
```

Ex. 7

```
1: A ← 3
2: B ← 4
3: C ← 4
4: D ← 2
5: se (A > 6) ∧ (B≤ 1)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 8) ∨(D<5)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 8

```
1: A ← 1
2: B ← 2
3: C ← 3
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 4)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 9

```
1: G ← 1
2: B ← 1
3: F ← 1 + 3
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 10

```
1: H ← 3
2: B ← 1
3: J ← 7
4: L ← 8
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 8
9:         senão
10:            K ← 3
11:        fim{se}
12:        L← K + 6
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 11

```
1: M ← 4
2: N ← 8
3: P ← 6
4: se (M < 5)
5:     se (N ≥ 6)
6:         se (P ≤ 7)
7:             M ← M +3
8:         senão
9:             N ← N +7
10:            P ← P +5
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 12

```
1: K ← 6
2: M ← 8
3: H ← 7
4: K ←K + 6
5: M ←M + K
6: se (H < 5)
7:     K← K + 2
8:     M← K + 2
9: senão
10:    H← H + 8
11:    M← 2
12: fim{se}
13: H ← 3
14: K ←K + 6-3
15: M ←M + 8-1
16: escreva K +M +H
```

Ex. 13

```
1: A ← 6
2: B ← 2
3: C ← 5
4: D ← 5
5: se (A > 3) ∧ (B≤ 7)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 1) ∨(D<6)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 14

```
1: A ← 3
2: B ← 2
3: C ← 8
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 2)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 15

```
1: G ← 5
2: B ← 1
3: F ← 2 + 6
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Respostas

1.	2.	3.	SOMA →
4.	5.	6.	SOMA →
7.	8.	9.	SOMA →
10.	11.	12.	SOMA →
13.	14.	15.	SOMA →

75965

Comando Condicional SE

Nos exercícios a seguir, siga a lógica do algoritmo e escreva o valor final impresso por ele. No final de tudo, some os valores encontrados, de 3 em 3 conforme mostra a grade de correção.

Ex. 1

```
1: A ← 6
2: B ← 4
3: C ← 3
4: D ← 8
5: se (A > 5) ∧ (B≤ 7)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 3) ∨(D<4)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 2

```
1: A ← 7
2: B ← 8
3: C ← 2
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 4)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 3

```
1: G ← 2
2: B ← 2
3: F ← 5 + 2
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 4

```
1: H ← 2
2: B ← 2
3: J ← 3
4: L ← 3
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 1
9:         senão
10:            K ← 3
11:        fim{se}
12:        L← K + 4
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 5

```
1: M ← 8
2: N ← 4
3: P ← 4
4: se (M < 4)
5:     se (N ≥ 2)
6:         se (P ≤ 2)
7:             M ← M +4
8:         senão
9:             N ← N +2
10:            P ← P +2
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 6

```
1: K ← 3
2: M ← 1
3: H ← 2
4: K ←K + 2
5: M ←M + K
6: se (H < 5)
7:     K← K + 6
8:     M← K + 4
9: senão
10:    H← H + 4
11:    M← 2
12: fim{se}
13: H ← 4
14: K ←K + 3-3
15: M ←M + 1-1
16: escreva K +M +H
```

Ex. 7

```
1: A ← 6
2: B ← 4
3: C ← 1
4: D ← 1
5: se (A > 5) ∧ (B≤ 4)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 3) ∨(D<5)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 8

```
1: A ← 4
2: B ← 6
3: C ← 4
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 8)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 9

```
1: G ← 8
2: B ← 1
3: F ← 4 + 6
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Ex. 10

```
1: H ← 3
2: B ← 6
3: J ← 8
4: L ← 7
5: se (H < 6)
6:     se (B < 5)
7:         se (J ≤5)
8:             K ← 4
9:         senão
10:            K ← 2
11:        fim{se}
12:        L← K + 5
13:    fim{se}
14:    L ←L + 1
15: fim{se}
16: escrevaJ + L-H
```

Ex. 11

```
1: M ← 4
2: N ← 3
3: P ← 2
4: se (M < 7)
5:     se (N ≥ 1)
6:         se (P ≤ 2)
7:             M ← M +6
8:         senão
9:             N ← N +3
10:            P ← P +6
11:        fim{se}
12:        M ← N + P
13:    fim{se}
14:    P ← N + M
15: fim{se}
16: escreva P + M + N
```

Ex. 12

```
1: K ← 2
2: M ← 5
3: H ← 2
4: K ←K + 4
5: M ←M + K
6: se (H < 4)
7:     K← K + 5
8:     M← K + 6
9: senão
10:    H← H + 1
11:    M← 2
12: fim{se}
13: H ← 5
14: K ←K + 2-3
15: M ←M + 5-1
16: escreva K +M +H
```

Ex. 13

```
1: A ← 4
2: B ← 6
3: C ← 2
4: D ← 3
5: se (A > 3) ∧ (B≤ 8)
6:     se (C < D)
7:         C ←C + 1
8:     senão
9:         D ←D + 3
10:    fim{se}
11: senão
12:    se (C > 2) ∨(D<6)
13:        C ←C × 2
14:    fim{se}
15: fim{se}
16: escreva (A+ B + C)-D
```

Ex. 14

```
1: A ← 8
2: B ← 1
3: C ← 1
4: se ((A+C) > (B+6))
5:     A ← A + 5
6:     se (B > 4)
7:         A ← A + 2
8:     fim{se}
9:     se (C < 4)
10:        se (A > 11)
11:            C ← B +2
12:        fim{se}
13:        C ← A + B
14:    fim{se}
15: fim{se}
16: escreva (A + B + C)
```

Ex. 15

```
1: G ← 8
2: B ← 8
3: F ← 5 + 3
4: se ((G > B) ∨ (F < 12))
5:     se (B ≥ 3)
6:         F ← F + 2
7:     fim{se}
8:     F ← F + 3
9: fim{se}
10: se (G ≤ 5)
11:    se (((B + 2) > 6) ∧ (F>3))
12:        B ← B + 2
13:    fim{se}
14: fim{se}
15: G ← G + 1
16: escreva G + B + (2×F)
```

Respostas

1.	2.	3.	SOMA →
4.	5.	6.	SOMA →
7.	8.	9.	SOMA →
10.	11.	12.	SOMA →
13.	14.	15.	SOMA →

75972