

Lista de Exercícios 01 - Introdução aos Algoritmos

Prof.: Hiran Nonato

Aluno: Rafael de Padua Oliveira

Q1. $A = 3$; $B = 5$; $C = 9$; $D = 15$

- | | |
|----------------------------------------------------------|------------------------------------------------------------|
| a) $A > B \ \& \ B < 10 \ \& \ C == 8$ (False) | h) $A > 3 \ \ 2 < C \ \& \ A > B$ (False) |
| b) $A > 3 \ \& \ B < 10 \ \& \ C == 20$ (False) | i) $A > A \ \ B == B \ \ C == D$ (True) |
| c) $A > 5 \ \ C < B \ \& \ C == D$ (False) | j) $A >= C \ \& \ B < D$ (False) |
| d) $A < 8 \ \ C > 5 \ \ C < D$ (True) | k) $A != 8 \ \& \ D != C \ \ C == B$ (True) |
| e) $A > B \ \& \ D < C \ \ A < D \ \& \ D < B$ (False) | l) $A != 3 \ \& \ D < B \ \& \ A < C$ (False) |
| f) $A > 8 \ \& \ D < B \ \& \ C > D$ (False) | m) $A == 2 \ \ D == B \ \ C < 5 \ \& \ A != B$ (False) |
| g) $A < 5 \ \ B > D \ \& \ D < A$ (False) | n) $A <= 3 \ \ D > 3 \ \ A != 2$ (True) |

Q2. Leia Salário

Salário = Salário * 1.1

Imprima Salário



Q3. Leia Salário

Leia Tempo

Se (Tempo < 2) então

Salário = Salário * 1.1

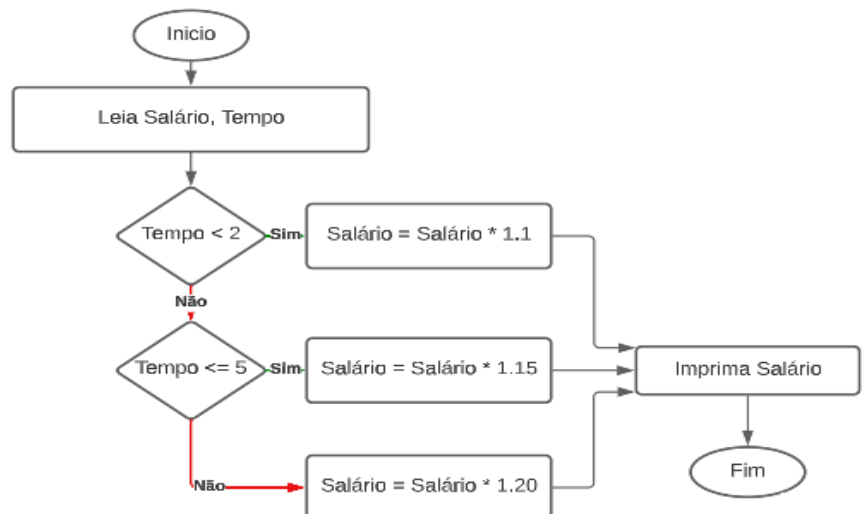
Senão se (Tempo <= 5) então

Salário = Salário * 1.15

Senão

Salário = Salário * 1.25

Imprima Salário



Q4. Leia h, sexo

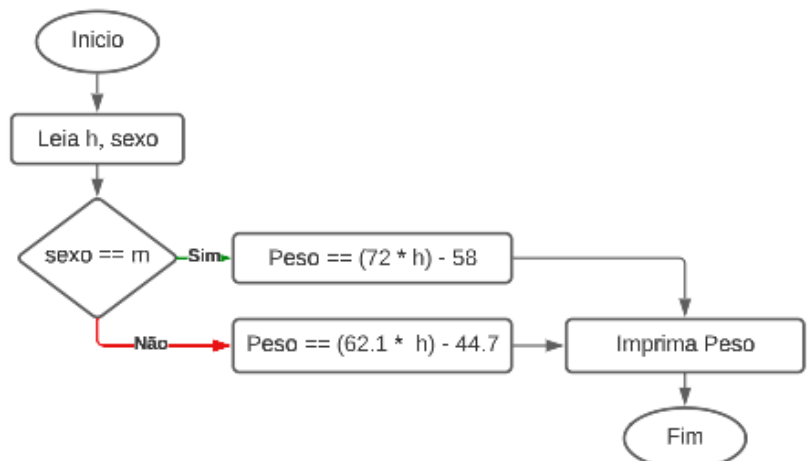
Se (sexo == m) então

Peso = (72 * h) - 58

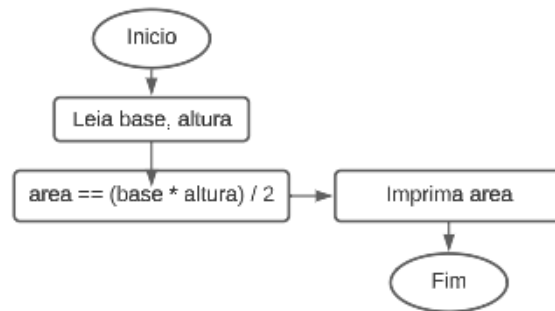
Senão

Peso = (62.1 * h) - 44.7

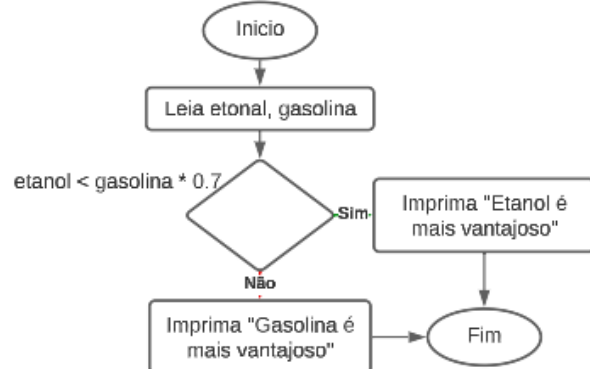
Imprima Peso



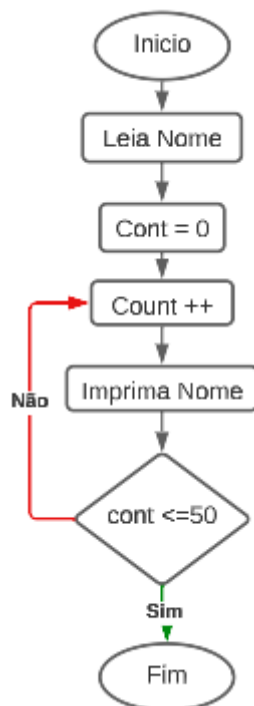
Q5. Leia base, altura
 $area = (base * altura) / 2$
 Imprima area



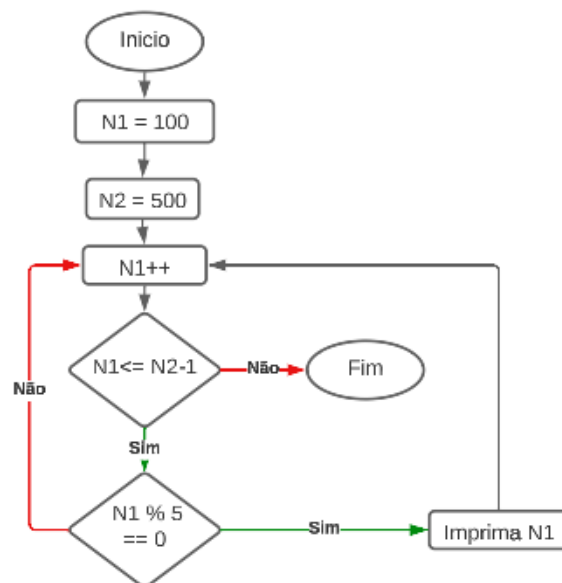
Q6. Leia etanol, gasolina
 Se $(etanol < gasolina * 0.7)$ então
 Imprima “etanol é mais vantajoso”
 Senão
 Imprima “gasolina é mais vantajoso”



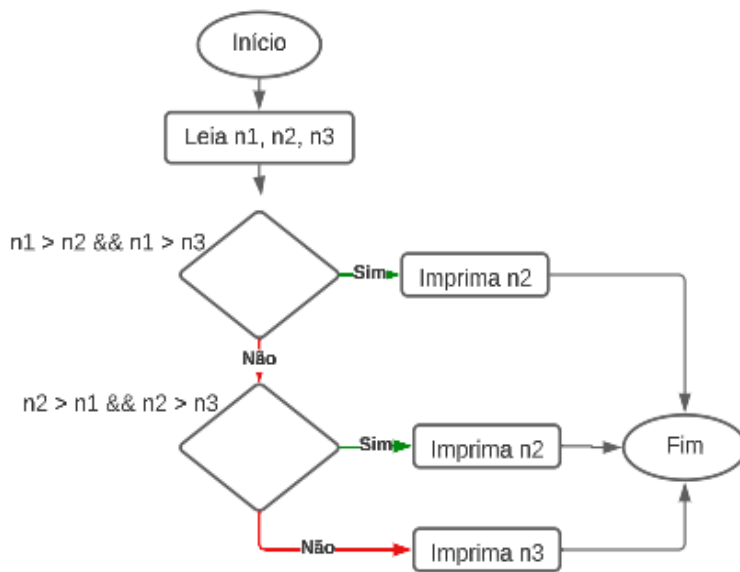
Q7.



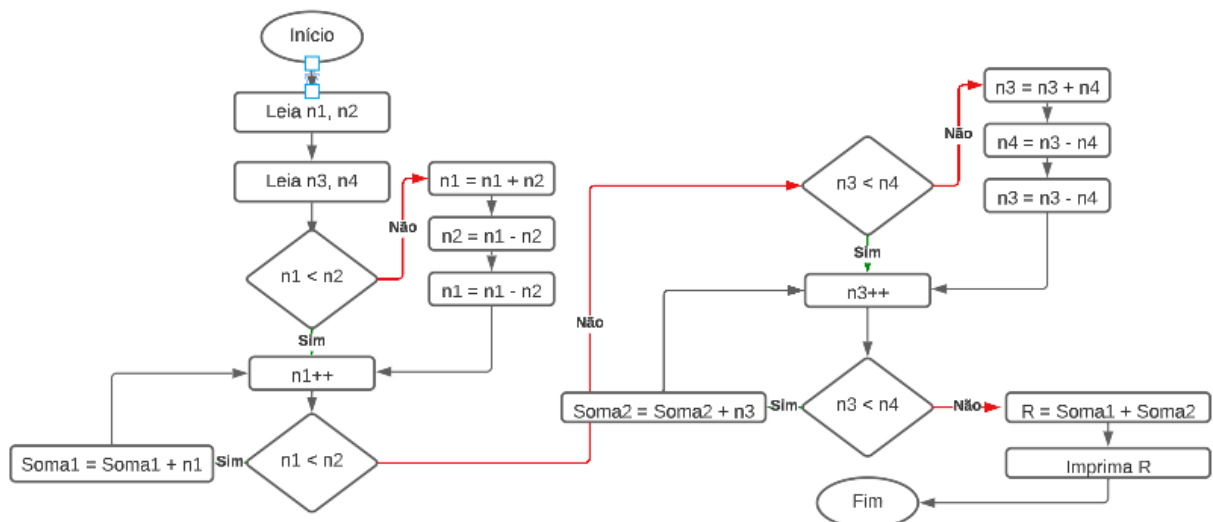
Q8.



Q9.



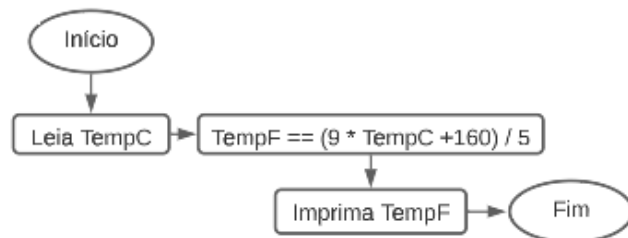
Q10.



Q11. Leia TempC

$$\text{TempF} = (9 * \text{TempC} + 160) / 5$$

Imprima TempF

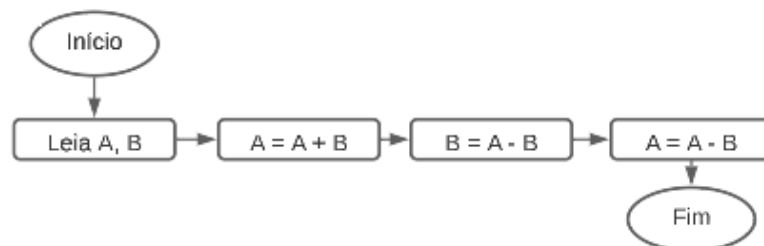


Q12. Leia A, B

$$A = A + B$$

$$B = A - B$$

$$A = A - B$$

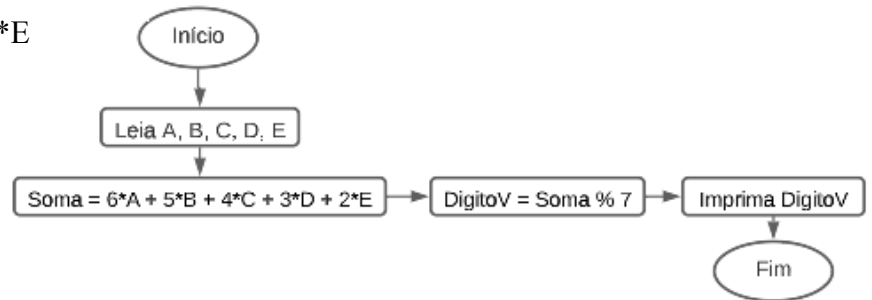


Q13. Leia A, B, C, D, E

$Soma = 6*A + 5*B + 4*C + 3*D + 2*E$

$DigitoV = Soma \% 7$

Imprima DitoV



Desafio Fácil*****

```
#include <stdio.h>
```

```
int main(void)
```

```
{
```

```
    int A, B, C; //Leia A, B, C
```

```
    printf("A: ");
```

```
    scanf("%d", &A);
```

```
    printf("B: ");
```

```
    scanf("%d", &B);
```

```
    printf("C: ");
```

```
    scanf("%d", &C);
```

```
    // Se A + B > C Imprima A + B maior que C
```

```
    // Se A + B < C Imprima A + B menor que C
```

```
    // Se A + B = C Imprima A + B igual a C
```

```
    if(A + B > C)
```

```
        printf("A + B maior que C\n");
```

```
    else if(A + B < C)
```

```
        printf("A + B menor que C\n");
```

```
    else
```

```
        printf("A + B igual a C\n");
```

```
    return 0;
```

```
}
```