

MATHEUS HENRIQUE BUTKOSKI SILVA

LISTA FOR

1)

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

```
#include <stdlib.h>
```

```
#include <math.h>
```

```
int main (){
```

```
int i, num;
```

```
printf ("Digite um numero para ver sua tabuada\n");
```

```
scanf ("%i", &num);
```

```
for (i=1; i<=10; i++){
```

```
printf ("%i x %i = %i\n", num, i, num * i);
```

```
}
```

```
system("pause");
```

```
}
```

2)

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

```
#include <stdlib.h>
```

```
#include <math.h>
```

```
int main (){
```

```
int num, i;
```

```
printf ("Digite um numero\n");
```

```
scanf ("%i", &num);
```

```
for (i=0;i<num;i++){
```

```
if (i % 2 != 0){
```

```
printf ("%i\n", i);
```

```
}
```

```
}
```

```
system("pause");
```

```
}
```

3)

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

```
#include <stdlib.h>
```

```
#include <math.h>
```

```
int main(){
```

```
    int num, maior, i;
```

```
    printf ("Digite 10 numeros\n");
```

```
    maior = 1;
```

```
    for (i=0; i<10; i++){
```

```
        scanf ("%i", &num);
```

```
        if (num > maior){
```

```
            maior = num;
```

```
        }
```

```
    }
```

```
    printf ("O maior numero digitado foi %i\n", maior);
```

```
    system("pause");
```

```
}
```

4)

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

```
#include <stdlib.h>
```

```
#include <math.h>
```

```
int main (){
```

```
    int inicio, fim, i;
```

```
    printf ("Digite o valor de inicio do intervalo\n");
```

```
    scanf ("%i", &inicio);
```

```
    printf ("Digite o valor de termino do intervalo\n");
```

```
    scanf ("%i", &fim);
```

```
    for (i=inicio ;i < fim; i++){
```

```
        printf ("%i\n", i);
```

```
    }
```

```
    system ("pause");
```

```
}
```

5)

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

```
#include <stdlib.h>
```

```
#include <math.h>
```

```
int main (){
```

```
int maior, menor, num, i, cont;
```

```
maior = 1;
```

```
printf ("Informe quantos numeros deseja digitar\n");
```

```
scanf ("%i", &cont);
```

```
for (i=0; i<cont; i++){
```

```
printf ("Digite o numero\n");
```

```
scanf("%i", &num);
```

```
if(num > maior){
```

```
maior = num;
```

```
}
```

```
if (num < menor){
```

```
menor = num;
```

```
}
```

```
}
```

```
printf ("O maior numero eh %i\n", maior);
```

```
printf ("O menor numero eh %i\n", menor);
```

```
system ("pause");
```

```
}
```

6)

```
#include <stdio.h>

#include <stdlib.h>

#include <math.h>
```

```
int main (){
```

```
    int num, i, cont1=0, cont2=0, x;

    printf ("Informe um numero inteiro\n");
    scanf ("%i", &num);
```

```
    printf ("Primeiros %i numeros pares\n", num);
    for (i=1; cont1<num; i++){
```

```
        if (i % 2 == 0){
            printf ("%i\n", i);
            cont1 = cont1 + 1;
```

```
        }
```

```
    }
```

```
    printf ("Primeiros %i numeros impares\n", num);
```

```
    for (x=1; cont2<num; x++){
```

```
        if (x % 2 == 1){
            printf ("%i\n", x);
            cont2 = cont2 + 1;
```

```
        }
```

```
    }
```

```
    system ("pause");
```

```
}
```

7)

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

```
#include <stdlib.h>
```

```
#include <math.h>
```

```
int main (){
```

```
int p_int, p_fra, i, soma, pot;
```

```
for (i=1000; i<=9999; i++){
```

```
    p_int = i/100;
```

```
    p_fra = i % 100;
```

```
    soma = p_int + p_fra;
```

```
    pot = soma * soma;
```

```
    if (pot == i){
```

```
        printf ("Possui mesma caracteristica do numero 3025\n");
```

```
        printf ("%i + %i = %i, %i x %i = %i\n", p_int, p_fra, soma, soma, soma, pot);
```

```
    }
```

```
}
```

```
system ("pause");
```

```
}
```

8)

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

```
#include <stdlib.h>
```

```
#include <math.h>
```

```
int main (){
```

```
int qtd, fim, i, soma, ant=0;
```

```
printf ("Quantos numeros da sequencia deseja calcular\n");
```

```
scanf("%i", &qtd);
```

```
qtd = qtd - 2;
```

```
printf ("0\n1\n");
```

```
for (i=0; i<qtd; i++){
```

```
    if (i==0){
```

```
        fim = 1;
```

```
    }
```

```
    soma = fim + ant;
```

```
    ant = fim;
```

```
    fim = soma;
```

```
    printf ("%i\n", fim);
```

```
}
```

```
system("pause");
```

```
}
```


9)

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

```
#include <stdlib.h>
```

```
#include <math.h>
```

```
int main (){
```

```
    int i;
```

```
    for (i=0; i<999; i++){
```

```
        if(i % 11 == 5){
```

```
            printf ("%i\n", i);
```

```
        }
```

```
    }
```

```
    system("pause");
```

```
}
```

10)

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

```
#include <stdlib.h>
```

```
#include <math.h>
```

```
int main (){
```

```
int i, num;
```

```
printf ("Informe um numero para ver seus divisores\n");
```

```
scanf("%i", &num);
```

```
for (i=1; i < num; i++){
```

```
if (num % i == 0){
```

```
    printf ("%i\n", i);
```

```
}
```

```
}
```

```
system("pause");
```

```
}
```

11)

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

```
int main (){
```

```
int b, n, i, res = 1;
```

```
printf ("Informe o valor da base (maior que 1)\n");
```

```
scanf ("%i", &b);
```

```
printf ("Informe o valor do expoente (maior ou igual a 2)\n");
```

```
scanf ("%i", &n);
```

```
if (b>1 && n>=2){
```

```
for (i=0; i<n; i++){
```

```
    res = res * b;
```

```
}
```

```
printf ("Resultado: %i\n", res);
```

```
}else{
```

```
printf ("Valores invalidos\n");
```

```
}
```

```
system("pause");
```

```
}
```

12)

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

```
#include <stdlib.h>
```

```
#include <math.h>
```

```
int main (){
```

```
int i, num, res = 1;
```

```
printf ("Digite um numero para ver seu fatorial\n");
```

```
scanf ("%i", &num);
```

```
for (i=num; i > 1; i--){
```

```
res = res * i;
```

```
}
```

```
printf ("O fatorial de %i eh %i\n", num, res);
```

```
system("pause");
```

```
}
```

13)

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

```
#include <stdlib.h>
```

```
#include <math.h>
```

```
int main (){
```

```
    int i, num;
```

```
    float fat = 1, res = 1;
```

```
    printf("Digite um numero\n");
```

```
    scanf("%i", &num);
```

```
    for (i=1; i<=num; i++){
```

```
        fat = fat * i;
```

```
        res = res + 1/fat;
```

```
    }
```

```
    printf("O valor de E eh: %f\n", res);
```

```
}
```

14)

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

```
#include <stdlib.h>
```

```
#include <math.h>
```

```
int main (){
```

```
int num, i, soma=0;
```

```
printf ("Digite um numero para verificar se eh perfeito\n");
```

```
scanf ("%i", &num);
```

```
for (i=1; num > i; i++){
```

```
if (num % i == 0){
```

```
    soma = soma + i;
```

```
    }
```

```
}
```

```
if (num == soma){
```

```
    printf ("O numero eh perfeito\n");
```

```
}else {
```

```
    printf ("O numero nao eh perfeito\n");
```

```
}
```

```
system ("pause");
```

```
}
```

15)

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

```
#include <stdlib.h>
```

```
#include <math.h>
```

```
int main (){
```

```
int i;
```

```
float soma=0, impar=1;
```

```
for(i=1; i<=50; i++){
```

```
soma = soma + (impar/i);
```

```
printf ("%0f/ %i\n", impar, i);
```

```
impar = impar + 2;
```

```
}
```

```
printf("A soma total eh: %2.f\n", soma);
```

```
system("pause");
```

```
}
```

16)

```
#include <stdio.h>

#include <stdlib.h>

#include <math.h>


int main (){

    int i;

    float massa, tempo=0, inicial, min, horas;


    printf ("Informe a massa inicial em gramas\n");
    scanf ("%f", &massa);
    inicial = massa;


    for(i=1; massa>0.05; i++){

        massa = massa / 2;
        tempo = tempo + 50;
    }


    min = tempo / 60;
    horas = min / 24;
    printf ("A massa inicial eh %.2f g\n", inicial);
    printf ("A massa final eh %.2f g\n", massa);
    printf ("O tempo em segundos eh %.2f s\n", tempo);
    printf ("O tempo em minutos eh %.2f min\n", min);
    printf ("O tempo em horas eh %.2f h\n h", horas);
    system ("pause");
}
```


17)

```
#include <stdio.h>

#include <stdlib.h>

#include <math.h>

int main (){

int i, n1, n2, atual, ant1, ant2;


printf ("Informe o primeiro termo\n");
scanf ("%i", &n1);
printf("Informe o segundo termo\n");
scanf ("%i", &n2);
printf ("%i\n%i\n", n1, n2);
for(i=3; i<10; i++){

    if (i==3){
ant1 = n1;
ant2 = n2;
    }

    if (i % 2 == 0){
atual = ant1 + ant2;
    } else {
atual = ant1 - ant2;
    }

ant1 = ant2;
ant2 = atual;
printf ("%i - %i\n", i, atual);
}

system ("pause");
}
```

18)

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

```
#include <stdlib.h>
```

```
#include <math.h>
```

```
int main (){
```

```
int i, atual, inteiro;
```

```
for (i=10; i<100; i++){
```

```
if (i % 10 != 0){
```

```
atual = i;
```

```
inteiro = atual/10;
```

```
if (atual % inteiro == 0){
```

```
printf ("%i\n", atual);
```

```
    }
```

```
}
```

```
}
```

```
system ("pause");
```

```
}
```