Lista aula 2

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```
1
#include <stdio.h>
int main()
{
  int
    i = 2,
    j = 0,
    limite = 2000000,
    soma = 0;
  for( ; i<limite; i++ )</pre>
    int primo = 1;
    for( j=2; j<i; j++ )</pre>
      if( !(i % j) )
       primo = 0;
        break;
      }
    }
    if( primo )
      soma += i;
    }
  }
  printf("Soma: %d\n", soma);
  return 0;
}
\mathbf{2}
#include <stdio.h>
int main()
  int
    i = 0,
    n = 0,
    c = 0,
    soma = 0,
    max = 0,
    min = 0,
    par = 0,
    numpares = 0;
```

```
puts("Insira N: ");
  scanf("%d", &n);
  for( ;i<n; i++ )</pre>
    printf("\nInsira n#%d: ", i + 1);
    scanf("%d", &c);
    soma += c;
    if(!(c % 2))
        par += c;
        numpares++;
    }
    if( !i || c > max )
                         \max = c;
    if( !i || c < max )</pre>
                         min = c;
  printf("Soma: %d\n", soma);
  printf("Quantidade: %d\n", n);
  printf("Média: %f\n", (float)(soma / n));
  printf("Menor: %d\n", min);
  printf("Maior: %d\n", max);
  printf("Média pares: %f\n", (float)(par / numpares));
 return 0;
}
3
#include <stdio.h>
int main()
 int
   n = 0
   i = 0,
    j = 0;
  scanf("%d", &n);
  while(i++ < n)
   int primo = 1;
    j = 1;
    while (j++ < i)
      if(!(i % j))
        primo = 0;
        break;
```

```
}
   }
   if( primo )
     printf("%d\n", primo);
 return 0;
#include <stdio.h>
int main()
 int n = 0,
 scanf("%d", &n);
 while(n-->0)
   printf("%d\n", n);
 return 0;
#include <stdio.h>
int main()
 int
   n = 0,
   i = 0,
   c = 0,
   max = 0,
   acc = 0;
  scanf("%d", &n);
 while(i++ < n)
   scanf("%d", &c);
   if( !i || c > max )
     max = c;
     acc++;
   }
```

```
printf("Max: %d\n", max);
 printf("Acc: %d\n", acc);
 return 0;
}
6
#include <stdio.h>
int main()
{
 int
   n = 0,
   i = 0;
  scanf("%d", &n);
 while( i++ < n )
   if( !(n % i) )
     printf("%d\n", i);
 return 0;
#include <stdio.h>
int main()
 int
   i = 0,
   max = 0;
 while( i++ < 1000 )
   if( !(i % 5) || !(i % 3) )
   {
     \max += i;
   }
 printf("Soma: %d\n", max);
 return 0;
}
```

```
7
#include <stdio.h>
int main()
 int
   i = 0,
   max = 0;
  while( i++ < 1000 )
   if( !(i % 5) || !(i % 3) )
     \max += i;
   }
  }
  printf("Soma: %d\n", max);
 return 0;
#include <stdio.h>
int main()
  int
    soma = 0,
   idade = 0,
    qtd = 0;
  do {
    scanf("%d", idade);
    soma += idade;
    qtd++;
  } while (idade != 0);
  printf("Média de idades: %d\n", idade / qtd);
 return 0;
}
9
#include <stdio.h>
#include <random.h>
int main()
  int
     num = rand(),
```

```
guess = 0,
      i = 0;
  do {
    scanf("%d", guess);
    printf("Você digitou um número %s!\n", guess > num
        ? "maior"
        : "menor");
  } while (guess != num);
  printf("Acertou, mizeravi\n");
 return 0;
10
#include <stdio.h>
#define PRINT_OP(exp) \
  printf(\#exp " = \%.2f\n", \#exp, exp)
\verb"enum" \{
    ADD = 1,
    SUB = 2,
    MUL = 3,
    DIV = 4,
    EXIT = 5,
    OPTS_SIZE,
};
char *opts[] = {
  "Somar",
  "Subtrair",
  "Multiplicar",
  "Dividir",
  "Sair",
};
int main()
  int opt = 0;
  float
   x = 0,
    y = 0;
  printf("X: "); scanf("%f", &x);
  printf("Y: "); scanf("%f", &y);
  do {
    int i = 0;
    for( ; i<0PTS_SIZE - 1; i++ )</pre>
    {
```

```
printf("#%d - %s\n", i + 1, opts[i]);
}

scanf("%d", &opt);
getchar();

switch( opt )
{
    case ADD: PRINT_OP(x + y); break;
    case SUB: PRINT_OP(x - y); break;
    case MUL: PRINT_OP(x * y); break;
    case DIV: PRINT_OP(x / y); break;
}

} while (opt != 5);

printf("Acertou, mizeravi\n");

return 0;
}
```