





## 3ª LISTA DE EXERCÍCIOS

0004604A - ALGORITMOS I



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1.

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

main() {

int n;

for(int t=1;; t++) {
    scanf("%d", &n);

if(n==-1) break;

printf("Teste %d\n", t);
    printf("%.f\n", pow(pow(2, n)+1, 2));
}

printf("%.f\n", pow(pow(2, n)+1, 2));
}
```

2.

```
1 #include <stdio.h>
2 #include <math.h>
3
4 main() {
5    int n, t=1;
7
8    while(scanf("%d", &n) && n>0) {
9       printf("Teste %d\n%d\n", t++, (1 << n)-1);
10    }
11
12 }</pre>
```

3.

```
1  #include <stdio.h>
2
3  main() {
4
5    int n;
6
7    scanf("%d", &n);
8
9    if(n >= 86) printf("A");
else if(n >= 61) printf("B");
else if(n >= 36) printf("C");
12    else if(n) printf("D");
else printf("E");
13
14
15 }
```

4.

```
#include <stdio.h>

main() {

int a;

scanf("%d", &a);

printf("%d", a+76-(a-1986)%76);

}
```

5.

```
#include <stdio.h>
4 ☐ int c(int x1,int y1,int x2,int y2) {
         return x1<=x2 && y1<=y2 || x1<=y2 && y1<=x2;
6 L }
8 <del>|</del> main() {
         int a1, b1, a2, b2, a, b;
         scanf("%d %d %d %d %d %d",&a1,&b1,&a2,&b2,&a,&b);
13 🖃
         if(c(a, b, a2, b2)) {
             printf("5");
             return 0;
18 😑
         for(int k=0;k<=a;k++) {
19 -
             if(c(a,k,a1,b1)&&c(a,b-k,a2,b2) || c(a,k,a2,b2)&&c(a,b-k,a1,b1)) {
                 printf("5");
                 return 0;
24 🗀
         for(int k=0;k<=b;k++) {
25 🖃
             if(c(b,k,a1,b1)&&c(b,a-k,a2,b2) || c(b,k,a2,b2)&&c(b,a-k,a1,b1)) {
                 printf("S");
                 return 0;
         printf("N");
```

6.

```
1  #include <stdio.h>
2  #include <math.h>
3
4  main() {
5    int xm, ym, xr, yr;
7    scanf("%d %d %d %d", &xm, &ym, &xr, &yr);
9
10    printf("%d", abs(xr-xm) + abs(yr-ym));
11
12 }
```