

## A - Small, Large, or Equal

```
#include <bits/stdc++.h>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    int num1,num2;
```

```
    cin>>num1>>num2;
```

```
    if(num1<num2)
```

```
    {
```

```
        cout<<"a < b";
```

```
    }
```

```
    if(num1>num2)
```

```
    {
```

```
        cout<<"a > b";
```

```
    }
```

```
    if(num1==num2)
```

```
    {
```

```
        cout<<"a == b";
```

```
    }
```

```
}
```

### **Sample Input 1**

```
1 2
```

### **Sample Output 1**

```
a < b
```

## Sample Input 2

4 3

## Sample Output 2

a > b

## Sample Input 3

5 5

## Sample Output 3

a == b

## [B - Compute area of rectangle](#)

```
#include <bits/stdc++.h>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    int l,b;
```

```
    cin>>l>>b;
```

```
    int area=l*b;
```

```
    cout<<area;
```

```
}
```

```
5 8
```

```
40
```

## [C - Triangle validator](#)

```
#include <bits/stdc++.h>
```

```
using namespace std;
```

```

int main()
{
    int a,b,c;
    cin>>a>>b>>c;
    if((a+b)>c && (b+c)>a && (a+c)>b)
    {
        cout<<"Yes";
    }
    else
    {
        cout<<"No";
    }
}

```

4 3 5

Yes

## [D - Divide the apples - 2](#)

```

#include <bits/stdc++.h>
using namespace std;

```

```

int main()
{
    int n,k;
    cin>>n>>k;
    cout<<k%n;
}

```

3 14

2

## E - Watermelon

```
#include <bits/stdc++.h>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    int w;
```

```
    cin>>w;
```

```
    if(w%2==0&& w!=2)
```

```
    {
```

```
        cout<<"Yes";
```

```
    }
```

```
    else
```

```
    {
```

```
        cout<<"No";
```

```
    }
```

```
}
```

```
8
```

```
Yes
```

## F - Fever

```
#include <bits/stdc++.h>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    int t;
```

```

cin>>t;
while(t--)
{
    int num;
    cin>>num;
    if(num>98)
    {
        cout<<"YES"<<"\n";
    }
    else
    {
        cout<<"NO"<<"\n";
    }
}
}
3
98
100
96

```

```

//NO
YES
NO

```

## [G - Lunchtime](#)

```

#include <bits/stdc++.h>

using namespace std;

int main()
{

```

```

int t;
cin>>t;
while(t-->0)
{
    int num;
    cin>>num;
    if(num==1 || num==2 || num==3 || num==4)
    {
        cout<<"YES"<<"\n";
    }
    else
    {
        cout<<"NO"<<"\n";
    }
}
}
3
1
7
3

```

```

YES
NO
YES

```

## [H - Is it hot or cold](#)

```

#include <bits/stdc++.h>
using namespace std;

```

```

int main()
{
    int t;
    cin >> t;
    while(t--)
    {
        int num;
        cin >> num;
        if(num > 20)
        {
            cout << "HOT" << "\n";
        }
        else
        {
            cout << "COLD" << "\n";
        }
    }
}
2
21
16

```

```

//HOT
COLD

```

## [I - Discount](#)

```

#include <bits/stdc++.h>

using namespace std;

```

```

int main()
{
    int t;
    cin >> t;
    while(t--)
    {
        int num;
        cin >> num;
        cout << 100 - num << "\n";
    }
}
4
5
9
11
21
//

```

```

95
91
89
79

```

## J - TV Discount

**\*\*Test case 11.\*\*** The cost of the first TV after discount is  $85 - 35 = 50$ , while the cost of the second TV after discount is  $75 - 20 = 55$ . Thus the first TV is cheaper to buy than the second.

```
#include <bits/stdc++.h>
```

```
using namespace std;
```

```
int main()
```



```

{
    int t;
    cin>>t;
    while(t--)
    {
        int tv1,tv2,dis1,dis2;
        cin>>tv1>>tv2>>dis1>>dis2;
        int afterdiscount1=tv1-dis1;
        int afterdiscount2=tv2-dis2;
        if(afterdiscount1<afterdiscount2)
        {
            cout<<"First"<<"\n";
        }
        if(afterdiscount1>afterdiscount2)
        {
            cout<<"Second"<<"\n";
        }
        if(afterdiscount1==afterdiscount2)
        {
            cout<<"any"<<"\n";
        }
    }
}

```

3

85 75 35 20

100 99 0 0

30 40 0 10

```

//First
Second
any

```

## K - Battery Low

```
#include <bits/stdc++.h>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    int t;
```

```
    cin>>t;
```

```
    while(t--)
```

```
    {
```

```
        int battery;
```

```
        cin>>battery;
```

```
        if(battery<=15)
```

```
        {
```

```
            cout<<"Yes"<<"\n";
```

```
        }
```

```
        else
```

```
        {
```

```
            cout<<"No"<<"\n";
```

```
        }
```

```
    }
```

```
}
```

```
3
```

```
15
```

```
3
```

```
65
```

```
//Yes
```

```
Yes
```

No

## L - Chef and Candies

```
#include <bits/stdc++.h>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    int t;
```

```
    cin>>t;
```

```
    while(t--)
```

```
    {
```

```
        int N,X;
```

```
        cin>>N>>X;
```

```
        N=max(0, N - X);
```

```
        int rem =N % 4 ? 1 : 0;
```

```
        cout<< (N / 4) + rem << "\n";
```

```
    }
```

```
}
```

```
4
```

```
20 12
```

```
10 100
```

```
10 9
```

```
20 9
```

```
//2
```

```
0
```

```
1
```

## M - Minimum Pizzas

```
#include <bits/stdc++.h>

using namespace std;

int main()
{
    int t;
    cin >> t;
    while(t--)
    {
        int N,X;
        cin >> N >> X;
        int pizza=N*X;
        int reqpizza=pizza/4;
        if(pizza%4==0)
        {
            cout<<reqpizza<<"\n";
        }
        else
        {
            cout<<reqpizza+1<<"\n";
        }
    }
    //4
    1 5
```

2 6

4 3

3 5

```
//2
```

```
3
```

```
3
```

```
4
```

## N - Sugarcane Juice Business

```
#include <bits/stdc++.h>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    int t;
```

```
    cin>>t;
```

```
    while(t--)
```

```
    {
```

```
        int n;
```

```
        cin>>n;
```

```
        cout<<n*15<<"\n";
```

```
    }
```

```
}
```

```
4
```

```
2
```

```
4
```

```
5
```

```
//30
```

```
60
```

75

150

## O - Perimeter of rectangle

```
#include <bits/stdc++.h>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    int l,b;
```

```
    cin>>l>>b;
```

```
    int a=l+b;
```

```
    int perimeter=2*a;
```

```
    cout<<perimeter;
```

```
}
```

```
3 4
```

```
//14
```

## P - Next even integer

```
#include <bits/stdc++.h>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    int num;
```

```
    cin>>num;
```

```
    if(num%2==0)
```

```

{
    cout<<num+2;
}
else
{
    cout<<num+1;
}
}
7      8
4      6

```

## Q - Decomposition of three digit number

```

#include <bits/stdc++.h>
using namespace std;

int main()
{
    int num;
    cin>>num;
    num=abs(num);
    int d1,d2,d3;
    //193
    //193/100=1
    //193/10)%10=9
    //193%10
    d1=num/100;
    d2=(num/10)%10;
    d3=(num%10);

```

```

    cout<<d1<<"\n"<<d2<<"\n"<<d3<<"\n";
}
-232
//
2
3
2

```

## R - The first digit of the number

```

#include <bits/stdc++.h>
using namespace std;

```

```

int main()
{
    long int num,l,f;
    cin>>num;
    num=abs(num);
    l=(int)log10(num)+1;
    f=num/pow(10,l-1);
    cout<<f;
}

```

1234567890123

//1

## S - Two digits from four digits

```

#include <bits/stdc++.h>
using namespace std;

```

```

int main()

```



```

{
    int num,l,m;
    cin>>num;
    if(num>0)
    {
        l=num/10;//4765/10=400
        m=l%100;//400%100=4
        cout<<m;
    }
}
4765
//76

```

## [T - Rectangle](#)

```

#include <bits/stdc++.h>

using namespace std;

int main()
{
    int l,b;
    cin>>l>>b;
    int area=l*b;
    int perimeter=(2*(l+b));
    cout<<area<<" "<<perimeter;
}
3 5
// 15 16

```

## [U - Watch](#)

```

#include <cstdio>
#include <iostream>
using namespace std;
int main ()
{
    long int sec;
    cin >> sec;
    cout << sec / 3600 << ":" ;
    sec=sec % 3600;
    cout<<sec/60<<":" << sec % 60<<endl;
    return 0;
}
46979

```

```
//13:2:59
```

## V - Range

```

#include <bits/stdc++.h>
using namespace std;
int main ()
{
    int n1,n2,n3;
    cin>>n1;
    cin>>n2;
    cin>>n3;
    if(n1<n2 && n2<n3 && n1<n3)
    {
        cout<<"Yes"<<endl;
    }
}

```

```
else
{
    cout<<"No"<<endl;
}
```

```
return 0;
}
```

1 3 7 // Yes

## W - Sorting Three Numbers

```
#include <iostream>
using namespace std;
int main ()
{
    int n1,n2,n3;
    cin>>n1;
    cin>>n2;
    cin>>n3;
    if(n1 > n2)
    {
        swap(n1, n2);
    }
    if(n1 > n3)
    {
        swap(n1, n3);
    }
    if(n2 > n3)
    {
        swap(n2, n3);
    }
}
```

```

    }

    cout<<n1 <<" " << n2<< " " << n3 <<endl;

    return 0;

}

3 8 1
//1 3 8

```

## Y - Print Test Cases

```

#include<iostream>

using namespace std;

int main() {

    int x, cn = 1;

    cin >> x;

    while (x != 0) {

        cout << "Case " << cn << ": " << x << endl;

        cn++;

        cin >> x;

    }

    return 0;

}

```

### Sample Input

```

3
5
11
7
8
19
0

```

### Sample Output

```

Case 1: 3
Case 2: 5
Case 3: 11

```

Case 4: 7  
Case 5: 8  
Case 6: 19

## Z - Swapping Two Numbers

```
#include<bits/stdc++.h>

using namespace std;

int main()
{
    int x,y;
    while(true)
    {
        cin>>x>>y;
        if(x==0&&y==0)
            break;
        if(x<y)
            cout<<x<<" "<<y<<endl;
        else
            cout<<y<<" "<<x<<endl;
    }
    return 0;
}
```

### Sample Input

```
3 2
2 2
5 3
0 0
```

### Sample Output

```
2 3
2 2
3 5
```

