Qu Runner up 3

Second largest # btw 3 #s

a = 10 ; b = 20 ; c = 30

greatest

smallest

```
if(a<b && a<c){
    syso("a is smallest #");
}
```

```
if(a>b && a>c){
    syso("a is the largest #");
}
```

step (1) // check if a is greater (b, c)

(1.1)

```
if(b>c){ syso("b"); }
else { syso("c") }
```

a > b > c

step (2) // check if b is greater (a, c)

```
if(a>c){ syso(a); }
else { syso(c); }
```

b >

step 3. // c is greater (a, b)

```
if(a>b){ syso(a); }
else { syso(b); }
```

Q 4

Take input three numbers **x**, **y**, **z** as an integer input

Then if the value of **x is greater than or equal to 20**,

a. If the value of **y is greater than or equal to 100** then **add 100 to the value of z.**

b. If the value of **y is less than 100 and greater than or equal to 50**, then **add 50 to the value of z.**

c. Else **add 10 to the value of z.**

Else if the value of **x is less than 20**,

a. If the value of **y is greater than or equal to 100** then **add 3 to the value of z.**

b. If the value of **y is less than 100 and greater than or equal to 50**, then **add 2 to the value of z.**

c. Else **add 1 to the value of z.**

Print the **final value of z** as an integer output in the end.

| x | y | z |
|---|---|---|
| 22 | 55 | 40 |

```
if(x>=20){
    if(y>=100){
        z=z+100;
    }
    else if(y<100 && y>=50){
        z=z+50;
    }
    else{
        z=z+10;
    }
}
else if(x<20){
    if(y>=100){
        z=z+8;
    }
    else if(y<100 && y>=50){
        z=z+2;
    }
    else{
        z=z+1;
    }
}
```

```java
public class Solution {

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);

        int x = scn.nextInt();
        int y = scn.nextInt();

        if(x>=59 && y>= 10){
            System.out.println("X is greater than or equal to 59 and y is greater than or equa
        }else if(x>=50 && y<10){
            System.out.println("X is greater than or equal to 50 and y is less than 10");
        }else{
            System.out.println("None of the condition matches");
        }
        /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class sho
    }
}
```

```java
public class Solution {

    public static void main(String[] args) {

        Scanner scn = new Scanner(System.in);
        int age = scn.nextInt();
        int salary = scn.nextInt();
        int yrs = scn.nextInt();

        if(age>60 && salary >20000 && yrs >20){
            salary = salary + 5000;
        }else if(age >40 && salary >15000 && yrs> 10){
            salary = salary + 2000;
        }else if(age >30 && salary > 10000 && yrs > 5){
            salary = salary + 1000;
        }else{
            salary = salary +500;
        }

        System.out.println(salary);
        /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class sh
    }
}
```

Que

```java
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);

    int x = scn.nextInt();
    int y = scn.nextInt();
    int z = scn.nextInt();

    if(x>=20 && z<100){
        z = z+200;
    }else if(x>=10 || y<50){
        z = z+100;
    }

    System.out.println(z);
    /* Enter your code here. Read input from STDIN. Print output t
}
```

# Switch statement

```
int n=5 , x
if(n==1){
    x=x+1;
}
else if(n==2){
    x=x+2;
}
else if(n==3){
    x=x+3;
}
.
.
.
else{
    x=x+6;
}
```

Syntax

```
n=6
Switch(n){
case 1:{
    x=x+1;
}break;
case 2:{
    x=x+2;
}break;
case 3:{
    x=x+3;
}break;
.
.
.
case 6:{ x=x+6;
}}
```

```java
public static void main(String[] args) {
    // int n = 90;
     Scanner scn = new Scanner(System.in);
     char ch = scn.next().charAt(0);
     switch(ch){
         case 'A':
             System.out.println("Excellent!");
             break;
         case 'B':
             System.out.println("Well done!");
             break;
         case 'C':
             System.out.println("You passed!");
             break;
         case 'F':
             System.out.println("Better luck next time!");
             break;
         default :
             System.out.println("Invalid grade");
             break;

     }
}
```


"well Done!"

"Invalid grade"