## Print final z

Take input three numbers  $\mathbf{x}$ ,  $\mathbf{y}$ ,  $\mathbf{z}$  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.

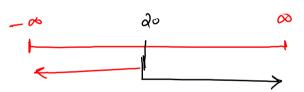
Else if the value of x is less than 20,

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.



```
if (x >= 20) {
   if (y >= 100){
       Z+=100;
    y else if ( y < 100 be y>=50){
       Z+=50;
     y else (
         Z += 10;
g else if (2<20) {
   if (y > = 100)
       7 += 3;
   J else if ( y < 100 && y > = 50) {
       7 +=2;
   3 elle ?
      Z+=1;
```

```
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 ( y >= 100 ) {
   z += 100;
} else if ( y < 100 && y >= 50 ) {
         z += 50;
       P else {
   z += 10;
    } else if (x < 20) {
     if ( y >= 100 ) {
   z += 3;
} else if ( y < 100 && y >= 50 ) {
  System.out.println(z);
```

## runner up 3

$$A = 10$$
,  $B = 20$ ,  $C = 30$ 

$$: - \left[ \begin{array}{c} B < A < C \\ \hline \end{array} \right] \quad \text{or} \quad \left[ \begin{array}{c} B > A > C \\ \hline \end{array} \right]$$

$$\frac{\text{OR}}{\text{A} > \text{B} > \text{C}}$$

$$\begin{array}{ccc}
 & A > C > B \\
 & & & \\
 & & & \\
 & & & \\
 & & & \\
\end{array}$$



```
public static void main(String[] args) {
   Scanner scn = new Scanner(System.in);
   int A = scn.nextInt();
   int B = scn.nextInt();
   int C = scn.nextInt();
     f ( (B < A && A < C) || (B > A && A > C) ) {
        System.out.println(A);
  = } else if ( (A < B && B < C) || (A > B && B > C) ) {
        System.out.println(B);
  _} else if ( (A < C && C < B) || (A > C && C > B) ) {
        System.out.println(C);
```

## Tell about x y

Take in two inputs  $\mathbf{x}$  and  $\mathbf{y}$  from the user, and then

a. If the value of x is greater than or equal to 59 and y is greater than or equal to 10, then print

X is greater than or equal to 59 and y is greater than or equal to 10

 $\alpha$ 

b. If the value of x is greater than or equal to 50, and y is less than 10, then print

X is greater than or equal to 50 and y is less than 10

#

c. Else print None of the condition matches

 $\chi = 60, y = 12$ 

-if 
$$(x > = 59 \text{ k} \text{ k} \text{ y} > = 10) \text{ }$$

Syso(a);

= y else if  $(x > = 50 \text{ k} \text{ k} \text{ y} < 10) \text{ }$ 

Syso(b);

= y else  $(x > = 50 \text{ k} \text{ y} < 10) \text{ }$ 

Syso(c);



```
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 equal to 10");
    } 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");
}</pre>
```

## Print the final incremented salary

I we can have multiple condition using logical operator

Take in three inputs age, salary, experience, then

- a. If age is greater than 60 and salary is greater than 20,000 and experience is greater than 20 years, then add 5000 to the salary.
- b. If age is greater than 40 and salary is greater than 15,000 and experience is greater than 10 years, then add 2000 to the salary.
- c. If age is greater than 30 and salary is greater than 10,000 and experience is greater than 5 years, then add 1000 to the salary.
- d. Otherwise add 500 to the salary.

In the end Print the final salary.

```
code
```

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
  int age = scn.nextInt();
   int salary = scn.nextInt();
    int exp = scn.nextInt();
   -if ( age > 60 && salary > 20000 && exp > 20 ) { salary += 5000;
  } else if ( age > 40 && salary > 15000 && exp > 10 ) {
        salary += 2000;
  _} else if ( age > 30 && salary > 10000 && exp > 5 ) {
        salary += 1000;
   } else {
        salary += 500;
   System.out.println(salary);
```

Switch Statement (alternative of	r if else ladder)
Syntex switch (condition)  case vall:  (statement)	
// statement L break;	
case val2: //statement2	
break;	-
default:	

default: // statement break;

```
code
```

```
public static void main(String[] args) {
    int i = 3;
    switch (i) {
        case 1:
            System.out.println("A");
            break;
        case 2:
            System.out.println("B");
            break;
        case 3:
            System.out.println("C");
            break;
        case 4:
            System.out.println("D");
            break;
        default:
            System.out.println("E");
            break;
```

disadvantage

Ly only single voulable can be checked