Rich Adult Young

Take the **age** and **salary** of a person as an integer input,

If the **age** is above 40 then

a. If the **salary is greater than or equal to 30,000** then print **You are rich and adult**

b. Else print **You are an adult**

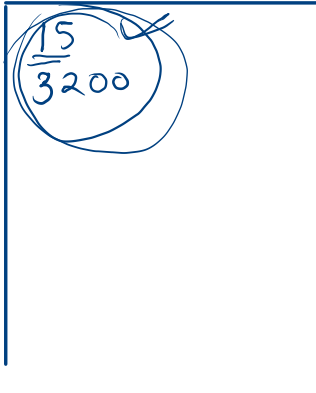Else if **age** is **less than or equal to 40**

a. If the **salary is greater than or equal to 12,000**, then print **You are rich and young**

b. Else print **You are young**

Sample Input 0

```
45
35000
```

Sample Output 0

```
You are rich and adult
```

i/p⌠ age
  ⌡ sal

if (age > 40)
{
  if (sal ≥ 30k)
    → o/p
  else
}
else {
  if sal ≥ 12k
  else
}

15
3200

```java
import java.io.*;
import java.util.*;

public class Solution {

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

        if(age > 40){
            //a,b
            if(sal >= 30000){
                System.out.println("You are rich and adult");
            }else{
                System.out.println("You are an adult");
            }
        }
        else if(age <= 40){     //else{}
            if(sal >= 12000){
                System.out.println("You are rich and young");
            }else{
                System.out.println("You are young");
            }
        }
    }
}
```

Print final z

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.

```java
1  import java.io.*;
2  import java.util.*;
3
4  public class Solution {
5
6      public static void main(String[] args) {
7          Scanner scn = new Scanner(System.in);
8          int x = scn.nextInt();
9          int y = scn.nextInt();
10         int z = scn.nextInt();
11
12         if(x >= 20){
13             //abc
14             if(y >= 100){
15                 z = z + 100;
16             }else if(y >= 50){
17                 z = z + 50;
18             }else{
19                 z = z + 10;
20             }
21         }else if(x < 20){    //else
22             //abc
23             if(y >= 100){
24                 z = z + 3;
25             }else if(y >= 50){
26                 z = z + 2;
27             }else{
28                 z = z + 1;
29             }
30         }
31
32
33         System.out.println(z);
34     }
35 }
```

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.

Math.max

```
1
2  public class Main
3  {
4      public static void main(String[] args) {
5
6          int ans = Math.max(4,7);
7          System.out.println(ans);
8
9
10
11     }
12 }
13
```

Math.min

```
1
2  public class Main
3  {
4      public static void main(String[] args) {
5          System.out.println( Math.min(4, 7));
6
7
8
9      }
10 }
11
```

infinity (∞) $\longrightarrow$ very large value.

$x = 50$

Math.min $(50, \infty)$ = 50

Math.min $(x, \infty) = x$

$-$infinity $(-\infty) \longrightarrow$ very small value.

$x = 50$

Math.max $(-\infty, 50) = 50$

Math.max $(-\infty, x) = x$

$x + 0 = x$

$x \cdot 1 = x$

runner up 3

Problem   Submissions   Leaderboard   Discussions

Three numbers **A, B and C** are the inputs. Write a program to find **second largest** among them.

Sample Input 0

```
120
11
400
```

Sample Output 0

```
120
```

logic.

2nd max . ?
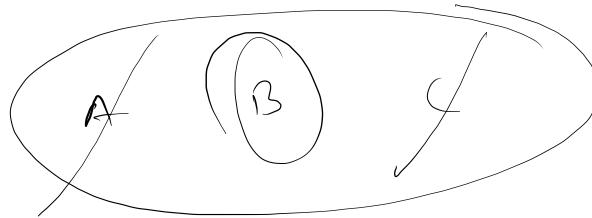
min = 11

max = 400
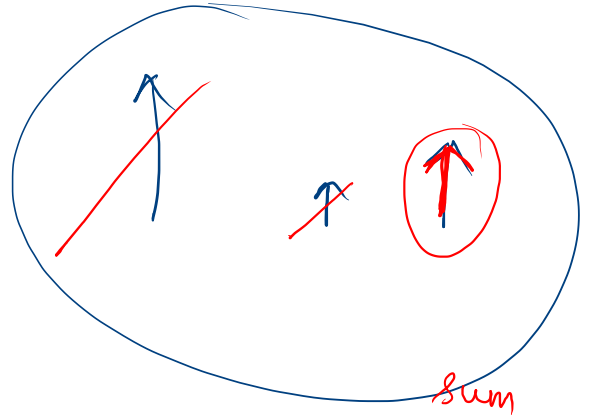
sum = 531

logic.

sum − max − min

= 531 − 400 − 11

=

A   B   C

Submitted Code

Language: Java 8

```java
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        int A = scn.nextInt();
        int B = scn.nextInt();
        int C = scn.nextInt();

        int max = Math.max(A, Math.max(B, C));
        int min = Math.min(A, Math.min(B, C));
        int sum = A + B + C;

        System.out.println(sum -  max - min);
    }
}
```


sum

int   age = 52;

double wt = 108.2;

boolean val = true; true/false

```java
1
2  public class Main
3  {
4      public static void main(String[] args) {
5          boolean val = true;
6          boolean val2 = false;
7
8          System.out.println(val);
9          System.out.println(val2);
10
11
12      }
13  }
14
```

logical Operator

Maths

or (||) ---- +

and (&&) ---- X

Truth Table of (OR)

↪ * any one is true ⟹ | answer = true |

x	y	ans
T	T	T
F	T	T
T	F	T
F	F	F

eg. (4 < 7) || (2 > 9)

       T || F

eg.   (10 == 100) || (2 < 1)

           F   F

Truth   Table   of   &&

* * all are true ⇒ **answer = true**

x	y	ans
F	F	F
F	T	F
T	(F)	F
T	T	~~F~~

eg. $(2 < 3)$ && $(4 < 5)$
           T   &&   T

eg. $(4 > 5)$ && $(2 == 2)$
           F   T

Tell about x y

Take in two inputs **x** and **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

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**

Sample Input 0

```
60
12
```

Sample Output 0

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

i/p $\begin{cases} x \\ y \end{cases}$

if $\qquad x \geq 59 \qquad \&\& \qquad y \geq 10$

else if $\quad x \geq 50 \qquad \&\& \quad y < 10$

else

```java
import java.io.*;
import java.util.*;

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 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");
        }

    }
}
```