**Hello Problem Set-01**

**Java Basic-I**

**From** [**https://www.w3resource.com/**](https://www.w3resource.com/)

**From Problem No (01-150)**

**1.** Write a Java program to print 'Hello' on screen and then print your name on a separate line. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Expected Output :  
Hello  
Alexandra Abramov

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-1.php)

**2.** Write a Java program to print the sum of two numbers. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Test Data:  
74 + 36  
Expected Output :  
110

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-2.php)

**3.** Write a Java program to divide two numbers and print on the screen. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Test Data :  
50/3  
Expected Output :  
16

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-3.php)

**4.** Write a Java program to print the result of the following operations. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Test Data:  
a. -5 + 8 \* 6  
b. (55+9) % 9  
c. 20 + -3\*5 / 8  
d. 5 + 15 / 3 \* 2 - 8 % 3  
Expected Output :  
43  
1  
19  
13

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-4.php)

**5.** Write a Java program that takes two numbers as input and display the product of two numbers. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Test Data:  
Input first number: 25  
Input second number: 5  
Expected Output :  
25 x 5 = 125

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-5.php)

**6.** Write a Java program to print the sum (addition), multiply, subtract, divide and remainder of two numbers. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Test Data:  
Input first number: 125  
Input second number: 24  
Expected Output :  
125 + 24 = 149  
125 - 24 = 101  
125 x 24 = 3000  
125 / 24 = 5  
125 mod 24 = 5

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-6.php)

**7.** Write a Java program that takes a number as input and prints its multiplication table upto 10. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Test Data:  
Input a number: 8  
Expected Output :  
8 x 1 = 8  
8 x 2 = 16  
8 x 3 = 24  
...  
8 x 10 = 80

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-7.php)

**8.** Write a Java program to display the following pattern. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Pattern :

J a v v a

J a a v v a a

J J aaaaa V V aaaaa

JJ a a V a a

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-8.php)

**9.** Write a Java program to compute the specified expressions and print the output. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Test Data:  
((25.5 \* 3.5 - 3.5 \* 3.5) / (40.5 - 4.5))  
Expected Output  
2.138888888888889

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-9.php)

**10.** Write a Java program to compute a specified formula. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Specified Formula :  
4.0 \* (1 - (1.0/3) + (1.0/5) - (1.0/7) + (1.0/9) - (1.0/11))  
Expected Output  
2.9760461760461765

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-10.php)

**11.** Write a Java program to print the area and perimeter of a circle. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Test Data:  
Radius = 7.5  
Expected Output  
Perimeter is = 47.12388980384689  
Area is = 176.71458676442586

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-11.php)

**12.** Write a Java program that takes three numbers as input to calculate and print the average of the numbers. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-12.php)

**13.** Write a Java program to print the area and perimeter of a rectangle. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Test Data:  
Width = 5.5 Height = 8.5

Expected Output  
Area is 5.6 \* 8.5 = 47.60  
Perimeter is 2 \* (5.6 + 8.5) = 28.20

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-13.php)

**14.** Write a Java program to print an American flag on the screen. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Expected Output

\* \* \* \* \* \* ==================================

\* \* \* \* \* ==================================

\* \* \* \* \* \* ==================================

\* \* \* \* \* ==================================

\* \* \* \* \* \* ==================================

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[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-14.php)

**15.** Write a Java program to swap two variables. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-15.php)

**16.** Write a Java program to print a face. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Expected Output

+"""""+

[| o o |]

| ^ |

| '-' |

+-----+

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-16.php)

**17.** Write a Java program to add two binary numbers. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Input Data:  
Input first binary number: 10  
Input second binary number: 11  
Expected Output

Sum of two binary numbers: 101

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-17.php)

**18.** Write a Java program to multiply two binary numbers. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Input Data:  
Input the first binary number: 10  
Input the second binary number: 11  
Expected Output

Product of two binary numbers: 110

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-18.php)

**19.** Write a Java program to convert a decimal number to binary number. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Input Data:  
Input a Decimal Number : 5  
Expected Output

Binary number is: 101

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-19.php)

**20.** Write a Java program to convert a decimal number to hexadecimal number. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Input Data:  
Input a decimal number: 15  
Expected Output

Hexadecimal number is : F

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-20.php)

**21.** Write a Java program to convert a decimal number to octal number. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Input Data:  
Input a Decimal Number: 15  
Expected Output

Octal number is: 17

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-21.php)

**22.** Write a Java program to convert a binary number to decimal number. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Input Data:  
Input a binary number: 100  
Expected Output

Decimal Number: 4

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-22.php)

**23.** Write a Java program to convert a binary number to hexadecimal number. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Input Data:  
Input a Binary Number: 1101  
Expected Output

HexaDecimal value: D

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-23.php)

**24.** Write a Java program to convert a binary number to a Octal number. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Input Data:  
Input a Binary Number: 111  
Expected Output

Octal number: 7

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-24.php)

**25.** Write a Java program to convert a octal number to a decimal number. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Input Data:  
Input any octal number: 10  
Expected Output

Equivalent decimal number: 8

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-25.php)

**26.** Write a Java program to convert a octal number to a binary number. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Input Data:  
Input any octal number: 7  
Expected Output

Equivalent binary number: 111

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-26.php)

**27.** Write a Java program to convert a octal number to a hexadecimal number. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Input Data:  
Input a octal number : 100  
Expected Output

Equivalent hexadecimal number: 40

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-27.php)

**28.** Write a Java program to convert a hexadecimal to a decimal number. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Input Data:  
Input a hexadecimal number: 25  
Expected Output

Equivalent decimal number is: 37

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-28.php)

**29.** Write a Java program to convert a hexadecimal to a binary number. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Input Data:  
Enter Hexadecimal Number : 37  
Expected Output

Equivalent Binary Number is: 110111

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-29.php)

**30.** Write a Java program to convert a hexadecimal to a octal number. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Input Data:  
Input a hexadecimal number: 40  
Expected Output

Equivalent of octal number is: 100

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-30.php)

**31.** Write a Java program to check whether Java is installed on your computer. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Expected Output

Java Version: 1.8.0\_71

Java Runtime Version: 1.8.0\_71-b15

Java Home: /opt/jdk/jdk1.8.0\_71/jre

Java Vendor: Oracle Corporation

Java Vendor URL: http://Java.oracle.com/

Java Class Path: .

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-31.php)

**32.** Write a Java program to compare two numbers. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Input Data:  
Input first integer: 25  
Input second integer: 39  
Expected Output

25 != 39

25 < 39

25 <= 39

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-32.php)

**33.** Write a Java program and compute the sum of the digits of an integer. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Input Data:  
Input an integer: 25  
Expected Output

The sum of the digits is: 7

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-33.php)

**34.** Write a Java program to compute the area of a hexagon. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Area of a hexagon = (6 \* s^2)/(4\*tan(π/6))  
where s is the length of a side  
Input Data:  
Input the length of a side of the hexagon: 6  
Expected Output

The area of the hexagon is: 93.53074360871938

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-34.php)

**35.** Write a Java program to compute the area of a polygon. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Area of a polygon = (n\*s^2)/(4\*tan(π/n))  
where n is n-sided polygon and s is the length of a side  
Input Data:  
Input the number of sides on the polygon: 7  
Input the length of one of the sides: 6  
Expected Output

The area is: 130.82084798405722

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-35.php)

**36.** Write a Java program to compute the distance between two points on the surface of earth. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Distance between the two points [ (x1,y1) & (x2,y2)]  
d = radius \* arccos(sin(x1) \* sin(x2) + cos(x1) \* cos(x2) \* cos(y1 - y2))  
Radius of the earth r = 6371.01 Kilometers  
Input Data:  
Input the latitude of coordinate 1: 25  
Input the longitude of coordinate 1: 35  
Input the latitude of coordinate 2: 35.5  
Input the longitude of coordinate 2: 25.5  
Expected Output

The distance between those points is: 1480.0848451069087 km

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-36.php)

**37.** Write a Java program to reverse a string. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Input Data:  
Input a string: The quick brown fox  
Expected Output

Reverse string: xof nworb kciuq ehT

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-37.php)

**38.** Write a Java program to count the letters, spaces, numbers and other characters of an input string. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Expected Output

The string is : Aa kiu, I swd skieo 236587. GH kiu: sieo?? 25.33

letter: 23

space: 9

number: 10

other: 6

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-38.php)

**39.** Write a Java program to create and display unique three-digit number using 1, 2, 3, 4. Also count how many three-digit numbers are there. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Expected Output

123

124

...

431

432

Total number of the three-digit-number is 24

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-39.php)

**40.** Write a Java program to list the available character sets in charset objects. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Expected Output

List of available character sets:

Big5

Big5-HKSCS

CESU-8

EUC-JP

EUC-KR

GB18030

GB2312

GBK

...

x-SJIS\_0213

x-UTF-16LE-BOM

X-UTF-32BE-BOM

X-UTF-32LE-BOM

x-windows-50220

x-windows-50221

x-windows-874

x-windows-949

x-windows-950

x-windows-iso2022jp

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-40.php)

**41.** Write a Java program to print the ascii value of a given character. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Expected Output

The ASCII value of Z is :90

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-41.php)

**42.** Write a Java program to input and display your password. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Expected Output

Input your Password:

Your password was: abc@123

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-42.php)

**43.** Write a Java program to print the following string in a specific format (see the output). [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output

Twinkle, twinkle, little star,

How I wonder what you are!

Up above the world so high,

Like a diamond in the sky.

Twinkle, twinkle, little star,

How I wonder what you are

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-43.php)

**44.** Write a Java program that accepts an integer (n) and computes the value of n+nn+nnn. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:

Input number: 5

5 + 55 + 555

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-44.php)

**45.** Write a Java program to find the size of a specified file. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:

/home/students/abc.txt : 0 bytes

/home/students/test.txt : 0 bytes

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-45.php)

**46.** Write a Java program to display the system time. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:

Current Date time: Fri Jun 16 14:17:40 IST 2017

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-46.php)

**47.** Write a Java program to display the current date time in specific format. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:

Now: 2017/06/16 08:52:03.066

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-47.php)

**48.** Write a Java program to print the odd numbers from 1 to 99. Prints one number per line. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:

1

3

5

7

9

11

....

91

93

95

97

99

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-48.php)

**49.** Write a Java program to accept a number and check the number is even or not. Prints 1 if the number is even or 0 if the number is odd. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:

Input a number: 20

1

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-49.php)

**50.** Write a Java program to print numbers between 1 to 100 which are divisible by 3, 5 and by both. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:

Divided by 3:

3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42, 45, 48, 51, 54, 57

, 60, 63, 66, 69, 72, 75, 78, 81, 84, 87, 90, 93, 96, 99,

Divided by 5:

5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90,

95,

Divided by 3 & 5:

15, 30, 45, 60, 75, 90,

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-50.php)

**51.** Write a Java program to convert a string to an integer in Java. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:

Input a number(string): 25

The integer value is: 25

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-51.php)

**52.** Write a Java program to calculate the sum of two integers and return true if the sum is equal to a third integer. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:

Input the first number : 5

Input the second number: 10

Input the third number : 15

The result is: true

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-52.php)

**53.** Write a Java program that accepts three integers from the user and return true if the second number is greater than first number and third number is greater than second number. If "abc" is true second number does not need to be greater than first number. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:

Input the first number : 5

Input the second number: 10

Input the third number : 15

The result is: true

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-53.php)

**54.** Write a Java program that accepts three integers from the user and return true if two or more of them (integers ) have the same rightmost digit. The integers are non-negative. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:

Input the first number : 5

Input the second number: 10

Input the third number : 15

The result is: true

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-54.php)

**55.** Write a Java program to convert seconds to hour, minute and seconds. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:

Input seconds: 86399

23:59:59

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-55.php)

**56.** Write a Java program to find the number of integers within the range of two specified numbers and that are divisible by another number. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
For example x = 5, y=20 and p =3, find the number of integers within the range x..y and that are divisible by p i.e. { i :x ≤ i ≤ y, i mod p = 0 }  
Sample Output:

5

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-56.php)

**57.** Write a Java program to accepts an integer and count the factors of the number. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:

Input an integer: 25

3

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-57.php)

**58.** Write a Java program to capitalize the first letter of each word in a sentence. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:

Input a Sentence: the quick brown fox jumps over the lazy dog.

The Quick Brown Fox Jumps Over The Lazy Dog.

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-58.php)

**59.** Write a Java program to convert a given string into lowercase. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:

Input a String: THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG.

the quick brown fox jumps over the lazy dog.

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-59.php)

**60.** Write a Java program to find the penultimate (next to last) word of a sentence. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:

Input a String: The quick brown fox jumps over the lazy dog.

Penultimate word: lazy

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-60.php)

**61.** Write a Java program to reverse a word. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:

Input a word: dsaf

Reverse word: fasd

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-61.php)

**62.** Write a Java program that accepts three integer values and return true if one of them is 20 or more and less than the substractions of others. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:

Input the first number : 15

Input the second number: 20

Input the third number : 25

false

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-62.php)

**63.** Write a Java program that accepts two integer values from the user and return the larger values. However if the two values are the same, return 0 and return the smaller value if the two values have the same remainder when divided by 6. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:

Input the first number : 12

Input the second number: 13

Result: 13

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-63.php)

**64.** Write a Java program that accepts two integer values between 25 to 75 and return true if there is a common digit in both numbers. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:

Input the first number : 35

Input the second number: 45

Result: true

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-64.php)

**65.** Write a Java program to calculate the modules of two numbers without using any inbuilt modulus operator. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:

Input the first number : 19

Input the second number: 7

5

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-65.php)

**66.** Write a Java program to compute the sum of the first 100 prime numbers. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:

Sum of the first 100 prime numbers: 24133

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-66.php)

**67.** Write a Java program to insert a word in the middle of the another string. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Insert "Tutorial" in the middle of "Python 3.0", so result will be Python Tutorial 3.0  
Sample Output:

Python Tutorial 3.0

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-67.php)

**68.** Write a Java program to create a new string of 4 copies of the last 3 characters of the original string. The length of the original string must be 3 and above. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:

3.03.03.03.0

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-68.php)

**69.** Write a Java program to extract the first half of a string of even length. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Test Data: Python  
Sample Output:

Pyt

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-69.php)

**70.** Write a Java program to create a string in the form short\_string + long\_string + short\_string from two strings. The strings must not have the same length. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Test Data: Str1 = Python  
Str2 = Tutorial  
Sample Output:

PythonTutorialPython

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-70.php)

**71.** Write a Java program to create the concatenation of the two strings except removing the first character of each string. The length of the strings must be 1 and above. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Test Data: Str1 = Python  
Str2 = Tutorial  
Sample Output:

ythonutorial

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-71.php)

**72.** Write a Java program to create a new string taking first three characters from a given string. If the length of the given string is less than 3 use "#" as substitute characters. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Test Data: Str1 = " "  
Sample Output:

###

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-72.php)

**73.** Write a Java program to create a new string taking first and last characters from two given strings. If the length of either string is 0 use "#" for missing character. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Test Data: str1 = "Python"  
str2 = " "  
Sample Output:

P#

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-73.php)

**74.** Write a Java program to test if 10 appears as either the first or last element of an array of integers. The length of the array must be greater than or equal to 2. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:  
Test Data: array = 10, -20, 0, 30, 40, 60, 10

true

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-74.php)

**75.** Write a Java program to test if the first and the last element of an array of integers are same. The length of the array must be greater than or equal to 2. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Test Data: array = 50, -20, 0, 30, 40, 60, 10  
Sample Output:

false

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-75.php)

**76.** Write a Java program to test if the first and the last element of two array of integers are same. The length of the array must be greater than or equal to 2. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Test Data: array1 = 50, -20, 0, 30, 40, 60, 12  
array2 = 45, 20, 10, 20, 30, 50, 11  
Sample Output:

false

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-76.php)

**77.** Write a Java program to create a new array of length 2 from two arrays of integers with three elements and the new array will contain the first and last elements from the two arrays. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Test Data: array1 = 50, -20, 0  
array2 = 5, -50, 10  
Sample Output:

Array1: [50, -20, 0]

Array2: [5, -50, 10]

New Array: [50, 10]

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-77.php)

**78.** Write a Java program to test that a given array of integers of length 2 contains a 4 or a 7. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:

Original Array: [5, 7]

true

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-78.php)

**79.** Write a Java program to rotate an array (length 3) of integers in left direction. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:

Original Array: [20, 30, 40]

Rotated Array: [30, 40, 20]

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-79.php)

**80.** Write a Java program to get the larger value between first and last element of an array (length 3) of integers . [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:

Original Array: [20, 30, 40]

Larger value between first and last element: 40

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-80.php)

**81.** Write a Java program to swap the first and last elements of an array (length must be at least 1) and create a new array. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:

Original Array: [20, 30, 40]

New array after swaping the first and last elements: [40, 30, 20]

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-81.php)

**82.** Write a Java program to find the largest element between first, last, and middle values from an array of integers (even length). [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:

Original Array: [20, 30, 40, 50, 67]

Largest element between first, last, and middle values: 67

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-82.php)

**83.** Write a Java program to multiply corresponding elements of two arrays of integers. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:

Array1: [1, 3, -5, 4]

Array2: [1, 4, -5, -2]

Result: 1 12 25 -8

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-83.php)

**84.** Write a Java program to take the last three characters from a given string and add the three characters at both the front and back of the string. String length must be greater than three and more. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Test data: "Python" will be "honPythonhon"  
Sample Output:

honPythonhon

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-84.php)

**85.** Write a Java program to check if a string starts with a specified word. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Data: string1 = "Hello how are you?"  
Sample Output:

true

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-85.php)

**86.** Write a Java program start with an integer n, divide n by 2 if n is even or multiply by 3 and add 1 if n is odd, repeat the process until n = 1. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-86.php)

**87.** Write a Java program than read an integer and calculate the sum of its digits and write the number of each digit of the sum in English. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-87.php)

**88.** Write a Java program to get the current system environment and system properties. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-88.php)

**89.** Write a Java program to check whether a security manager has already been established for the current application or not. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-89.php)

**90.** Write a Java program to get the value of the environment variable PATH, TEMP, USERNAME. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-90.php)

**91.** Write a Java program to measure how long some code takes to execute in nanoseconds. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-91.php)

**92.** Write a Java program to count the number of even and odd elements in a given array of integers. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-92.php)

**93.** Write a Java program to test if an array of integers contains an element 10 next to 10 or an element 20 next to 20, but not both. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-93.php)

**94.** Write a Java program to rearrange all the elements of an given array of integers so that all the odd numbers come before all the even numbers. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-94.php)

**95.** Write a Java program to create an array (length # 0) of string values. The elements will contain "0", "1", "2" … through ... n-1. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-95.php)

**96.** Write a Java program to check if there is a 10 in a given array of integers with a 20 somewhere later in the array. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-96.php)

**97.** Write a Java program to check if an array of integers contains a specified number next to each other or there are two same specified numbers separated by one element. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-97.php)

**98.** Write a Java program to check if the value 20 appears three times and no 20's are next to each other in an given array of integers. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-98.php)

**99.** Write a Java program to check if a specified number appears in every pair of adjacent element of a given array of integers. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-99.php)

**100.** Write a Java program to count the two elements differ by 1 or less of two given arrays of integers with same length. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-100.php)

**101.** Write a Java program to check if the number of 10 is greater than number to 20's in a given array of integers. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-101.php)

**102.** Write a Java program to check if a specified array of integers contains 10's or 30's. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-102.php)

**103.** Write a Java program to create a new array from a given array of integers, new array will contain the elements from the given array after the last element value 10. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-103.php)

**104.** Write a Java program to create a new array from a given array of integers, new array will contain the elements from the given array before the last element value 10. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-104.php)

**105.** Write a Java program to check if a group of numbers (l) at the start and end of a given array are same. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-105.php)

**106.** Write a Java program to create a new array that is left shifted from a given array of integers. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-106.php)

**107.** Write a Java program to check if an array of integers contains three increasing adjacent numbers. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-107.php)

**108.** Write a Java program to add all the digits of a given positive integer until the result has a single digit. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-108.php)

**109.** Write a Java program to form a staircase shape of n coins where every k-th row must have exactly k coins. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-109.php)

**110.** Write a Java program to check whether an given integer is a power of 4 or not. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Given num = 64, return true. Given num = 6, return false.  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-110.php)

**111.** Write a Java program to add two numbers without using any arithmetic operators. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Given x = 10 and y = 12; result = 22  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-111.php)

**112.** Write a Java program to compute the number of trailing zeros in a factorial. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
7! = 5040, therefore the output should be 1  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-112.php)

**113.** Write a Java program to merge two given sorted array of integers and create a new sorted array. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
array1 = [1,2,3,4]  
array2 = [2,5,7, 8]  
result = [1,2,2,3,4,5,7,8]  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-113.php)

**114.** Write a Java program to given a string and an offset, rotate string by offset (rotate from left to right). [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-114.php)

**115.** Write a Java program to check if a positive number is a palindrome or not. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Input a positive integer: 151  
Is 151 is a palindrome number?  
true  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-115.php)

**116.** Write a Java program which iterates the integers from 1 to 100. For multiples of three print "Fizz" instead of the number and print "Buzz" for the multiples of five. When number is divided by both three and five, print "fizz buzz". [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-116.php)

**117.** Write a Java program to compute the square root of an given integer. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Input a positive integer: 25  
Square root of 25 is: 5  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-117.php)

**118.** Write a Java program to get the first occurrence (Position starts from 0.) of a string within a given string. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-118.php)

**119.** Write a Java program to get the first occurrence (Position starts from 0.) of an element of a given array. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-119.php)

**120.** Write a Java program that searches a value in an m x n matrix. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-120.php)

**121.** Write a Java program to reverse a given linked list. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Example: For linked list 20->40->60->80, the reversed linked list is 80->60->40->20 [Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-121.php)

**122.** Write a Java program to find a contiguous subarray with largest sum from a given array of integers. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Note: In computer science, the maximum subarray problem is the task of finding the contiguous subarray within a one-dimensional array of numbers which has the largest sum. For example, for the sequence of values −2, 1, −3, 4, −1, 2, 1, −5, 4; the contiguous subarray with the largest sum is 4, −1, 2, 1, with sum 6. The subarray should contain one integer at least. [Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-122.php)

**123.** Write a Java program to find the subarray with smallest sum from a given array of integers. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-123.php)

**124.** Write a Java program to find the index of a value in a sorted array. If the value does not find return the index where it would be if it were inserted in order. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Example:  
[1, 2, 4, 5, 6] 5(target) -> 3(index)  
[1, 2, 4, 5, 6] 0(target) -> 0(index)  
[1, 2, 4, 5, 6] 7(target) -> 5(index)  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-124.php)

**125.** Write a Java program to get the preorder traversal of its nodes' values of a given a binary tree. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Example:

10

/ \

20 30

/ \

40 50

Expected output: 10 20 40 50 30  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-125.php)

**126.** Write a Java program to get the inorder traversal of its nodes' values of a given a binary tree. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)

10

/ \

20 30

/ \

40 50

Example:{10, 20, 30, 40, 50}  
Output: 40 20 50 10 30  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-126.php)

**127.** Write a Java program to get the Postorder traversal of its nodes' values of a given a binary tree. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)

10

/ \

20 30

/ \

40 50

[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-127.php)

**128.**Write a Java program to calculate the median of an given unsorted array of integers. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Example: {10,2,38,23,38,23,21}  
Output: 23  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-128.php)

**129.** Write a Java program to find a number that appears only once in a given array of integers, all numbers occur twice. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Source Array : [10, 20, 10, 20, 30, 40, 40, 30, 50] 50 appears only once  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-129.php)

**130.** Write a Java program to find the maximum depth of a given a binary tree. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output: The Maximum depth of the binary tree is: 3  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-130.php)

**131.** Write a Java program to find the new length of a given sorted array where each element appear only once (remove the duplicates ). [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Original array: [1, 1, 2, 3, 3, 3, 4, 5, 6, 7, 7] The length of the original array is: 11 After removing duplicates, the new length of the array is: 7  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-131.php)

**132.** Write a Java program to find the new length of a given sorted array where duplicate elements appeared at most twice. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Original array: [1, 1, 2, 3, 3, 3, 4, 5, 6, 7, 7, 7, 7]  
The length of the original array is: 13  
After removing duplicates, the new length of the array is: 10  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-132.php)

**133.** Write a Java program to find a path from top left to bottom in right direction which minimizes the sum of all numbers along its path. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Note: Move either down or right at any point in time.  
Sample Output: Sum of all numbers along its path: 13  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-133.php)

**134.** Write a Java program to find the distinct ways you can climb to the top (n steps to reach to the top) of stairs. Each time you can either climb 1 or 2 steps. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Example: n = 5  
a) 1+1+1+1+1 = 5 b) 1+1+1+2 = 5 c) 1+2+2 = 5 d) 2+2+1 = 5 e) 2+1+1+1 = 5 f) 2+1+2 = 5 g) 1+2+1+1 = 5 h) 1+1+2+1 = 5  
Sample Output: Distinct ways can you climb to the top: 8  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-134.php)

**135.** Write a Java program to remove duplicates from a sorted linked list. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Original List with duplicate elements:  
12->12->13->14->15->15->16->17->17  
After removing duplicates from the said list:  
12->13->14->15->16->17  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-135.php)

**136.** Write a Java program to find possible unique paths from top-left corner to bottom-right corner of a given grid (m x n). [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Note: You can move either down or right at any point in time.  
Sample Output: Unique paths from top-left corner to bottom-right corner of the said grid: 3  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-136.php)

**137.** Write a Java program to find possible unique paths considering some obstacles, from top-left corner to bottom-right corner of a given grid (m x n). [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Note: You can move either down or right at any point in time and an obstacle and empty space is marked as 1 and 0 respectively in the grid.  
Sample grid:  
int[][] obstacle\_Grid ={  
{0, 0, 0},  
{0, 1, 0},  
{0, 0, 0},  
};  
Sample Output: Unique paths from top-left corner to bottom-right corner of the said grid (considering some obstacles): 2  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-137.php)

**138.** Write a Java program to find all of the longest word in a given dictionary. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Example-1:  
{  
"cat",  
"flag",  
"green",  
"country",  
"w3resource"  
}  
Result: "w3resource"  
Example-2:  
{  
"cat",  
"dog",  
"red",  
"is",  
"am"  
}  
Result: "cat", "dog", "red"  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-138.php)

**139.** Write a Java program to get the index of the first number and the last number of a subarray where the sum of numbers is zero from a given array of integers. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Original Array : [1, 2, 3, -6, 5, 4]  
Index of the subarray of the said array where the sum of numbers is zero: [0, 3]  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-139.php)

**140.** Write a Java program to merge all overlapping Intervals from a given a collection of intervals. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output: 1 6  
8 10  
15 20  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-140.php)

**141.** Write a Java program to check if a given string has all unique characters. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output: Original String : xyyz  
String has all unique characters: false  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-141.php)

**142.** Write a Java program to check if two given strings are anagrams or not. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
According to Wikipedia "An anagram is a word or phrase formed by rearranging the letters of a different word or phrase, typically using all the original letters exactly once. For example, the word anagram can be rearranged into nag a ram, or the word binary into brainy."  
Sample Output: String-1 : wxyz  
String-2 : zyxw  
Check if two given strings are anagrams or not?: true  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-142.php)

**143.** Write a Java program to merge two given sorted lists. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:  
Merge Two Sorted ListsT:  
1 2 3 7 9 13 40  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-143.php)

**144.** Write a Java program to remove all occurrences of a specified value in a given array of integers and return the new length of the array. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:  
Original array: [1, 4, 6, 7, 6, 2]  
The length of the new array is: 4  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-144.php)

**145.** Write a Java program to remove the nth element from the end of a given list. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:  
Original node:  
1 2 3 4 5  
After removing 2nd element from end:  
1 2 3 5  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-145.php)

**146.** Write a Java program to convert an sorted array to binary search tree. Maintain minimal height of the tree. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:  
2  
1  
4  
6  
5  
3  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-146.php)

**147.** Write a Java program to find the number of bits required to flip to convert two given integers. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:  
2  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-147.php)

**148.** Write a Java program to find the index of the first unique character in a given string, assume that there is at least one unique character in the string. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:  
Original String: wresource  
First unique character of the above: 0  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-148.php)

**149.** Write a Java program to check if a given string is a permutation of another given string. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:  
Original strings: xxyz yxzx  
true  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-149.php)

**150.** Write a Java program to test if a binary tree is a subtree of another binary tree. [Go to the editor](https://www.w3resource.com/java-exercises/basic/index.php#editorr)  
Sample Output:  
Original strings: xxyz yxzx  
true  
[Click me to see the solution](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-150.php)