ARRAYS

List of Items of the same type

Defining an array (1)

type[] arrayName = new type[size];

int[] marks = new int[3];

Defining an array (1)



type[] arrayName = new type[size];

Zero-indexed

int[] marks =
$$ne \omega$$
 int[\$]; ao marks [0] = 97 ; $ne \omega$ marks [1] = 98 ; $ne \omega$ [2] = 95 ;



```
Users > shradhakhapra > <a> Arrays.java > <a> Arrays > <a> main(String)</a>
       import java.util.*;
  1
  2
       public class Arrays {
  3
            Run | Debug
            public static void main(String args[]) {
  4
               // int[] marks = new int[3];
  5
               int marks[] = new int[3];
  6
  7
                marks[0] = 97; // phy
  8
                marks[1] = 98; // chem
                marks[2] = 95; //eng
  9
                // System.out.println(marks[0]);
 10
                // System.out.println(marks[1]);
 11
                // System.out.println(marks[2]);
 12
 13
                for(int i=0; i<3; i++) {
 14
 15
                    System.out.println(marks[i]);
 16
 17
 18
```

19

```
snradnaknapra > 💗 Arrays.java > 🥰 Arrays > 😭 main(String)
import java.util.*;
public class Arrays {
    Run | Debug
    public static void main(String args[]) {
       Scanner sc = new Scanner(System.in);
       int size = sc.nextInt();
       int numbers[] = new int[size];
       //input
       for(int i=0; i<size; i++) {
           numbers[i] = sc.nextInt();
       }
       //output
        for(int i=0; i<size; i++) {
            System.out.println(numbers[i]);
        }
```

Qs. Take an array as input from the user. Search for a given number x and print the index at which it occurs.

(length)

"length"

```
// Tilbar
10
              for(int i=0; i<size; i++) {
                  numbers[i] = sc.nextInt();
11
12
              }
13
14
              int x = sc.nextInt();
15
16
              //output
               for(int i=0; i<numbers.length; i++) {</pre>
17
18
                   System.out.println(numbers[i]);
19
               }
20
21
22
```

```
//input
for(int i=0; i<size; i++) {
    numbers[i] = sc.nextInt();
}
int x = sc.nextInt();

//output
for(int i=0; i<numbers.length; i++) {
    if(numbers[i] == x) {
        System.out.println("x found at index : " + i);
    }
}</pre>
```

Qs. Take an array as input from the user. Search for a given number x and print the index at which it occurs.