```java
public class ex{
    public void printArray(String[] s){
        for(int i=0;i<s.length;i++){
            System.out.println(s[i]);
        }
    }

    public static void main(String args[]){
        ex e = new ex();
        String []s1 = {"john","john"};
        e.printArray(s1);
        //Integer[]i={1,2,3,4};
        //e.printArray(i);
    }
}
```
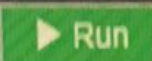
```
john
johm

...Program finished with exit code 0
Press ENTER to exit console.
```

Run Debug Stop Share Save {} Beautify

ex.java

```java
public class ex{
    public void printArray(String[] s){
        for(int i=0;i<s.length;i++){
            System.out.println(s[i]);
        }
    }
    public void printArray(Integer[] s){
        for(int i=0;i<s.length;i++){
            System.out.println(s[i]);
        }
    }

    public static void main(String args[]){
        ex e = new ex();
        String []s1 = {"john","john"};
        e.printArray(s1);
        Integer[]i={1,2,3,4};
        e.printArray(i);
    }
}
```
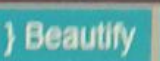
input

```
john
john
1
2
3
4

...Program finished with exit code 0
Press ENTER to exit console.
```

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ex.java ⋮

```java
1  public class ex{
2      public <E> void printArray(E []s){
3          for(int i=0;i<s.length;i++){
4              System.out.println(s[i]);
5          }
6      }
7      public static void main(String args[]){
8          ex e = new ex();
9          String []s1 = {"john","john"};
10         e.<String>printArray(s1);
11         Integer[]i={1,2,3,4};
12         e.<Integer>printArray(i);
13     }
14 }
15
```

input

```
john
john
1
2
3
4


...Program finished with exit code 0
Press ENTER to exit console.
```

```java
public class Main{
    public <E> void printArray(E []s,E key){
        for(int i=0;i<s.length;i++){
            if(key==s[i]){
                System.out.println("the index of the element is:"+i);
            }
        }
    }
    public static void main(String[] args){
        Main m = new Main();
        String []s1 = {"john","om"};
        m.<String>printArray(s1,"Om");
        Integer[]i={1,2,3,4};
        m.<Integer>printArray(i,4);
    }
}
```
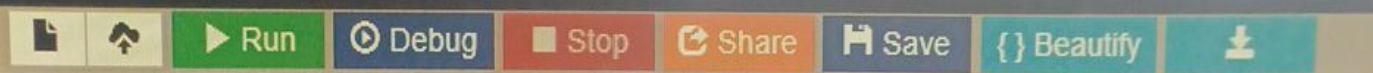
```
the index of the element is:3


...Program finished with exit code 0
Press ENTER to exit console.
```

```java
//generic class
class MyData{
    Integer i;
    public void set(Integer i1){
        i=i1;
    }
    public Integer get(){
        return (i);
    }
}
public class Example{
    public static void main(String[] args){
        MyData m1 = new MyData();
        Integer i1 = 3;
        m1.set(i1);
        System.out.println(m1.get());
    }
}
```

```
3

...Program finished with exit code 0
Press ENTER to exit console.
```

Example.java ⋮

```java
1   //generic class example
2   class MyData <E>{
3       E i;
4       public void set(E i1){
5           i=i1;
6       }
7       public E get(){
8           return (i);
9       }
10  }
11  public class Example{
12      public static void main(String[] args){
13          MyData<Integer> m1 = new MyData<Integer>();
14          MyData<String> m2 = new MyData<String>();
15          String s = "Hello";
16          m2.set(s);
17          System.out.println(m2.get());
18          Integer i1 = 3;
19          m1.set(i1);
20          System.out.println(m1.get());
21      }
22  }
```

input

```
Hello
3


...Program finished with exit code 0
Press ENTER to exit console.
```

```java
1  //crate a generic class search array element key
2  //2nd class create object and call
3  public class Search<E>{
4      public void printArray(E []s,E key){
5          for(int i=0;i<s.length;i++){
6              if(key==s[i]){
7                  System.out.println("the index of element is:"+i);
8              }
9          }
10     }
11     public static void main(String[] args){
12         Search<Integer> m = new Search<Integer>();
13         Integer []i = {1,2,3,4};
14         m.<Integer>printArray(i,4);
15         Search<String> m1 = new Search<String>();
16         String []s1 = {"john","om"};
17         m1.<String>printArray(s1,"om");
18     }
19 }
```

```
the index of element is:3
the index of element is:1


...Program finished with exit code 0
Press ENTER to exit console.
```