```
#include <stdio.h>
   int findPivot(int[], int, int);
   int binarySearch(int[], int, int);
4
6
   int pivotedBinarySearch(int arr[], int n, int key)
8 * {
        int pivot = findPivot(arr, 0, n - 1);
10
        if (pivot == -1)
11
            return binarySearch(arr, 0, n - 1, key);
12
13
14
15
        if (arr[pivot] == key)
            return pivot;
         if (arr[0] <= key)
             return binarySearch(arr, 0, pivot - 1, key);
         return binarySearch(arr, pivot + 1, n - 1, key);
     int findPivot(int arr[], int low, int high)
```

```
return findPivot(arr, low, mid - 1);
         return findPivot(arr, mid + 1, high);
37
38
39
     int binarySearch(int arr[], int low, int high, int key)
40
41 - {
42
          if (high < low)</pre>
43
              return -1;
 44
          int mid = (low + high) / 2;
 45
          if (key == arr[mid])
 46
               return mid;
          if (key > arr[mid])
 47
               return binarySearch(arr, (mid + 1), high, key);
           return binarySearch(arr, low, (mid - 1), key);
  50
      int main()
           int arr1[] = { 5, 6, 7, 8, 9, 10, 1, 2, 3 };
int n = sizeof(arr1) / sizeof(arr1[0]);
```

```
return findPivot(arr, mid + 1, high);
 36
 37 }
 38
Index of the element is: 8
...Program finished with exit code 0
Press ENTER to exit console.
```