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| --- |
| package vandana.assitedprojects.com; |
|  |  |
|  | public class BinarySearch { |
|  |  |
|  | public static void main(String[] args) { |
|  | int[] arr = {3,6,9,12,15}; |
|  | int key = 12; |
|  | int arrlength = arr.length; |
|  | binarySearch(arr,0,key,arrlength); |
|  |  |
|  |  |
|  | } |
|  | public static void binarySearch(int[] arr, int start, int key, int length){ |
|  |  |
|  | int midValue = (start+length)/2; |
|  | while(start<=length){ |
|  |  |
|  | if(arr[midValue]<key){ |
|  |  |
|  | start = midValue + 1; |
|  | } else if(arr[midValue]==key){ |
|  | System.out.println("Element is found at index :"+midValue); |
|  | break; |
|  | }else { |
|  |  |
|  | length=midValue-1; |
|  | } |
|  | midValue = (start+length)/2; |
|  | } |
|  | if(start>length){ |
|  |  |
|  | System.out.println("Element is not found"); |
|  | } |
|  |  |
|  | } |
|  |  |
|  |  |
|  | } |