

```
import java.util.ArrayList;
import java.util.List;
import java.util.PriorityQueue;
import java.util.Scanner;
```

```
public class print_nodes_lesstThanX {
```

```
    public static void main(String[] args) {
        PriorityQueue<Integer> min_heap = new PriorityQueue<>();
        int[] items_of_min_heap = { 2, 3, 15, 5, 4, 45, 80, 6, 150, 77, 120 };
```

```
        for (var item : items_of_min_heap)
            min_heap.add(item);
        Scanner input = new Scanner(System.in);
        int key_value = input.nextInt();
        System.out.println(generate_ans_list(min_heap, key_value));
```

```
        input.close();
```

```
    }
```

```
    private static List<Integer> generate_ans_list(PriorityQueue<Integer> min_heap, int
key_value) {
```

```
        List<Integer> ans = new ArrayList<>();
```

```
        for (var item : min_heap) {
            if (item < key_value) {
                ans.add(item);
            }
        }
```

```
        return ans;
```

```
    }
```

```
}
```