**package** com;

**import** java.util.Arrays;

**public** **class** ExponentialSearch {

**static** **int** ExponentialSearch(**int** arr[],**int** n, **int** x)

{

**if** (arr[0] == x)

**return** 0;

**int** i = 1;

**while** (i < n && arr[i] <= x)

i = i\*2;

**return** Arrays.*binarySearch*(arr, i/2,

Math.*min*(i, n-1), x);

}

**public** **static** **void** main(String args[])

{

**int** arr[] = {8,12,15,75,34,75};

**int** x = 34;

**int** result = *ExponentialSearch*(arr,

arr.length, x);

System.***out***.println((result < 0) ?"Element is not present in array" :"Element is present at index " +result);

}

}

