package Package;

import java.util.Arrays;

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public class ExponentialAlgorithm {

public static void main(String[] args){

int[] arr = {6,12,18,24,32};

int length= arr.length;

int value = 18;

int outcome = *exponentialSearch*(arr,length,value);

if(outcome<0){

System.*out*.println( "Element is not present in the array");

}else {

System.*out*.println("Element is present in the array at index:"+outcome);

}

}

public static int exponentialSearch(int[] arr,int length, int value){

if(arr[0]==value){

return 0;

}

int i=1;

while(i<length && arr[i]<=value){

i=i\*2;

}

return Arrays.*binarySearch*(arr,i/2,Math.*min*(i,length),value);

}

}