CODE

import java.util.Arrays;

import java.util.Scanner;

class peak {

static int minusDifference(int arr[], int n, int k) {

int result = Integer.MAX\_VALUE;

Arrays.sort(arr);

for (int i=0; i<= n-k;i++)

result = Math.min(result, arr[i + k - 1] - arr[i]);

return result;

}

static int findele(int res,int arr[], int n, int k)

{

int result = Integer.MAX\_VALUE;

for(int i=0; i<=n; i++)

{

result = Math.min(result, arr[i + k - 1] - arr[i]);

if (res==result)

return i;

}

return 0;

}

public static void main(String[] args)

{

int arr[]={7980,22349,999,2799,229900,11101,9999,2195,9800,4999};

String items[]={ "MI Band: 999","Sandwich Toaster: 2195" ,"Cult Pass: 2799","Scale: 4999","Fitbit Plus: 7980","Microwave Oven: 9800" ,"Alexa: 9999","Digital Camera: 11101", "IPods: 22349","Macbook Pro: 229900" };

int n = arr.length;

System.out.println("Enter the number of employees");

Scanner s = new Scanner(System.in);

int k=s.nextInt();

int result= minusDifference(arr, n, k);

System.out.println("Number of the employees:"+k);

int startindex=findele(result,arr,n,k);

System.out.println("Here the goodies that are selected for distribution are:");

for(int i=startindex;i<startindex+k;i++)

System.out.println(items[i]);

System.out.println("And the difference between the chosen goodie with highest price and the lowest price is:"+result);

}

}