package pack1;

import java.util.Arrays;

import java.util.Scanner;

public class HR {

static int minDiff(int array[], int N, int M)

{

int result = Integer.MAX\_VALUE;

Arrays.sort(array);

for (int i=0; i<= N-M;i++)

result = Math.min(result, array[i + M - 1] - array[i]);

return result;

}

static int findelements(int res,int array[], int N, int M)

{

int result = Integer.MAX\_VALUE;

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

{

result = Math.min(result, array[i + M - 1] - array[i]);

if (res==result)

return i;

}

return 0;

}

public static void main(String[] args) {

int array[]={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 = array.length;

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

Scanner s = new Scanner(System.in);

int M=s.nextInt();

int result=minDiff(array, N, M);

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

int startindex=findelements(result,array,N,M);

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

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

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

System.out.println("\n");

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

}

}