import java.io.\*;

import java.util.\*;

class Item {

String name;

int price;

public Item(String name, int price) {

this.name = name;

this.price = price;

}

public String toString() {

return this.name + ": " + this.price;

}

}

public class Goodies {

public static void main(String[] args) throws Exception {

FileInputStream fis=new FileInputStream("sample\_input.txt");

Scanner sc=new Scanner(fis);

int number\_of\_employees = Integer.parseInt(sc.nextLine().split(": ")[1]);

sc.nextLine(); sc.nextLine(); sc.nextLine();

ArrayList<Item> goodies\_items = new ArrayList<Item>();

while(sc.hasNextLine())

{

String current[] = sc.nextLine().split(": ");

goodies\_items.add(new Item(current[0], Integer.parseInt(current[1])));

}

sc.close();

Collections.sort(goodies\_items, new Comparator<Item>(){

public int compare(Item a, Item b) {

return a.price - b.price;

}

});

int min\_diff = goodies\_items.get(goodies\_items.size()-1).price;

int min\_index = 0;

for(int i=0;i<goodies\_items.size()-number\_of\_employees+1;i++) {

int diff = goodies\_items.get(number\_of\_employees+i-1).price-goodies\_items.get(i).price;

if(diff<=min\_diff) {

min\_diff = diff;

min\_index = i;

}

}

FileWriter fw = new FileWriter("output.txt");

FileInputStream fis1=new FileInputStream("output.txt");

System.out.println("testing");

fw.write("The goodies selected for distribution are:\n\n");

for(int i=min\_index;i<min\_index + number\_of\_employees; i++) {

fw.write(goodies\_items.get(i).toString() + "\n");

}

fw.write("\nAnd the difference between the chosen goodie with highest price and the lowest price is " + min\_diff);

fw.close();

}

}