Programming assignment 7

Rodcutting

Input (Standard input)

In the first line, an integer *N* is given which means the length of Rod ($1 \leq N \leq 100$).

In the second line, *N* integers are given which means p_i ($p_{i-1} \leq p_i \leq p_{i+1}$). p_i is the value when the length of Rod is *i*.

Output (Standard output)

In the first line, print the maximum profit which could be made by the Rod's length of *N*.

In the next line, print the lengths of Rod for the maximum profit in non-decreasing order.

[Example]

Sample Input	Sample Output
10	30
1 5 8 9 10 17 17 20 24 30	10

Sample Input	Sample Output
4	10
1 5 8 9	2 2

Description

1. File name must be Rodcutting.cpp

2. Make a comment of your student ID, name and class in the first line of the source code.

ex) 2014601028_Honggildong_A

3. Please keep the source code that you have submitted for some unexpected accident.