

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 1 5 8 9 10 17 17 20 24 30	30 10

Sample Input	Sample Output
4 1 5 8 9	10 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. Back up your submitted source code for an unexpected accident.