Advanced Coding Practice

HW Problem 0-0

2023 Fall, CSE4152

Sogang University

The maximum subsequence sum

Given a sequence of n numbers, $X=(x_1, x_2, \ldots, x_n)$, find a subsequence $X^* \subset X$ such that

- the numbers in subsequence X^* are consecutive in X
- the sum of the numbers in X^* is the maximum over all subsequences of X

X =	(31,	-41,	59,	26,	-53,	58,	97,	-93,	-23,	84)
	x_1	x_2	x_3	x_4	x_5	x_6	x_7	x_8	x_9	x_{10}

187

3 7

$X^*=X[3..7]$

Code submission

Please submit a C/C++ file that solves the problem.

Filename should be the following: CSE4152 _student id _hw00_0.cpp.

Input & output

Input	Output
10 31 -41 59 26 -53 58 97 -93 -23 84	187