2024 Spring Object-Oriented Programming

HW2

The game of "Jump It" consists of a board with **n positive integers** in a row the first column which always contains 0. These numbers represent the cost to enter each column. The object of the game is to move from the first column to the last column with the lowest total cost. The number in each column represents the cost to enter that column. You always start the game in the first column and have two types of moves. You can either move 1 step or 2 steps. The cost of a game is the sum of the costs of the columns visited.

Write a recursive solution to this problem that computes the lowest cost of the game and outputs this value. Your program doesn't have to output the actual sequence of jumps, only the lowest cost of this sequence.

輸入說明:

輸入的第一個數字為 board 的 column 數 n，接著根據 n 的數量給予每個 column 的 cost。

輸出說明:

你必須 cout “The lowest cost is …” (… 試算出來的最小 cost)。

Note:

Input file 的 file name 用 cin 的方式讀取。

Sample Case:

```
Please enter the filename: in1.txt
The lowest cost is 19

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Process exited after 4.575 seconds with return value 0
請按任意鍵繼續 . . .
```

Submission - Deadline: 2023/3/11 23:59

- 請將程式碼(.cpp 檔)上傳至 E3 作業繳交區
- 程式碼命名: studentID_HW2.cpp (e.g. 112511000_HW2.cpp)

***命名方式錯誤將斟酌扣分