Dominating set in a path

Given an array of n positive integers $A[0]\sim A[n-1]$, please find the minimum total sum of a subset such that each non-chosen element A[i] has at least one neighbor in the set, i.e., A[i-1] or A[i+1] must be chosen.

Input: The input consists of several test cases, each in one line. Each case starts from an integer n indicating the number of elements in the array A. Followed this integer there are n positive integers which are $A[0],A[1],\ldots,A[n-1]$. We suppose that n < 0 and 0 < A[i] < 1000. The case with n = 0 is the end of the input.

Output: For each case, output the minimum total sum in one line.

Sample Input:

3 1 2 3

4 10 9 1 7

559721

0

Output of the sample input:

2

10

7