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The Virtual Learning Environment for Computer Programming

## The greedy frog

P40088\_en

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In a pond there are n stones  $1, \ldots, n$  in a row. A frog must go from stone 1 to n, in principle going consecutively through stones 2, 3, ... The problem is that the frog is very greedy, and it will not help eating all the flies around each stone that it visits. To avoid fattening too much, the frog can make up to j big forward jumps, each one over at most two stones (that is, from i it can jump, at most, up to i + 3). What is the minimum number of flies that the frog will eat?

### Input

Input consists of several cases. Every case begins with n and j, followed by the number of flies around each stone (n natural numbers between 0 and  $10^4$ ). Assume  $2 \le n \le 1000$ , and  $0 \le j < n$ .

## Output

For every case, print the minimum number of flies that the frog will eat.

Sample input			Sample output
	2 0	23 33	56
	2 1	23 33	56
	4 0	100 42 3 1000	1145
	4 1	100 42 3 1000	1100
	3 1	10000 10000 10000	20000
	5 1	1000 1000 0 1000 1000	3000
	5 2	1000 1000 0 1000 1000	2000
	5 4	1000 1000 0 1000 1000	2000

#### **Problem information**

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