



Your Jumping on the Clouds: Revisited submission got 15.00 points.

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Jumping on the Clouds: Revisited



by Shafaet

Problem

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Aerith is playing a cloud game! In this game, there are n clouds numbered sequentially from 0 to $n - 1$. Each cloud is either an *ordinary cloud* or a *thundercloud*.

Aerith starts out on cloud 0 with energy level $E = 100$. She can use 1 unit of energy to make a jump of size k to cloud $(i + k) \% n$, and she jumps until she gets back to cloud 0 . If Aerith lands on a thundercloud, her energy (E) decreases by 2 additional units. The game ends when Aerith lands back on cloud 0 .

Given the values of n , k , and the configuration of the clouds, can you determine the final value of E after the game ends?

Note: Recall that $\%$ refers to the [modulo operation](#).

Input Format

The first line contains two space-separated integers, n (the number of clouds) and k (the jump distance), respectively.

The second line contains n space-separated integers describing the respective values of clouds c_0, c_1, \dots, c_{n-1} . Each cloud is described as follows:

- If $c_i = 0$, then cloud i is an *ordinary cloud*.
- If $c_i = 1$, then cloud i is a *thundercloud*.

Constraints

- $2 \leq n \leq 25$
- $1 \leq k \leq n$
- $n \% k = 0$
- $c_i \in \{0, 1\}$

Output Format

Print the final value of E on a new line.

Sample Input

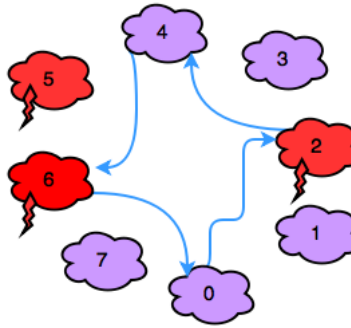
```
8 2
0 0 1 0 0 1 1 0
```

Sample Output

```
92
```

Explanation

In the diagram below, *red* clouds are thunderclouds and *purple* clouds are ordinary clouds:



Observe that our thunderclouds are the clouds numbered **2**, **5**, and **6**. Aerith makes the following sequence of moves:

1. Move: $0 \rightarrow 2$, Energy: $E = 100 - 1 - 2 = 97$.
2. Move: $2 \rightarrow 4$, Energy: $E = 97 - 1 = 96$.
3. Move: $4 \rightarrow 6$, Energy: $E = 96 - 1 - 2 = 93$.
4. Move: $6 \rightarrow 0$, Energy: $E = 93 - 1 = 92$.

Thus, we print **92** as our answer.

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Submissions: 24593

Max Score: 15

Difficulty: Easy

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Current Buffer (saved locally, editable)

Go

▼



```

1 package main
2
3 import "fmt"
4
5
6 func main() {
7     nvalue := 0
8     kvalue := 0
9
10    //clouds := [8]int{0, 0, 1, 0, 0, 1, 1, 0}
11    energy := 100
12
13    fmt.Scanf("%d", &nvalue)
14    fmt.Scanf("%d", &kvalue)
15
16    clouds := make([]int, nvalue)
17
18    for i := 0; i < nvalue; i++ {
19
20        fmt.Scanf("%d", &clouds[i])
21
22    }
23
24
25    idx := kvalue
26
27
28    for i := 1; i <= nvalue/kvalue; i++ {

```

```
29  if (kvalue * i) >= nvalue {
30      idx = 0
31  } else {
32      idx = kvalue * i
33  }
34
35  energy = energy - 1
36  if clouds[idx] == 1 {
37      energy = energy - 2
38  }
39
40  /*fmt.Println(energy)*/
41  }
42  fmt.Print(energy)
43
44  }
45
```

Line: 1 Col: 13

[Upload Code as File](#) ☐ Test against custom input

Run Code

Submit Code

Congrats, you solved this challenge!

✓ Test Case #0

✓ Test Case #3

✓ Test Case #6

✓ Test Case #1

✓ Test Case #4

✓ Test Case #7

✓ Test Case #2

✓ Test Case #5

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