

DP-S002 (E002)

Solved Challenges 1/2

[Back To Challenges List](#)**Boy Ice-cream Kth day****ID:10531 Solved By 658 Users**

A boy can have either a chocolate(C) or an ice-cream(I) on a given day. But to avoid catching cold, his mom has prevented him from having ice-cream on consecutive days. As the boy was adamant, his mom gave a relaxation that on every Kth day, the boy can have ice-cream even if he ate ice-cream the previous day. The program must print the number of ways W in which the boy can have chocolate or ice-cream over the period of N days.

Boundary Condition(s): $1 \leq N \leq 50$ $2 \leq K \leq 100$ **Input Format:**

The first line contains N and K separated by a space.

Output Format:

The first line contains W.

Example Input/Output 1:

Input:

3 2

Output:

6

Explanation:

The 6 ways to have over three days are

C C C

C C I

C I C

I C C

I C I

I I C (as K=2, on the second day ice-cream can be had even on successive days)

Max Execution Time Limit: 500 millisecs 

[Reset](#)

```
1  #include<stdio.h>
2  #include<stdlib.h>
3  #define UUL unsigned long long int
4  int main()
5  {
6      int n,k;
7      scanf("%d%d", &n,&k);
8      UUL chocos[n+1];
9      UUL icecream[n+1];
10     chocos[1] = icecream[1] = 1;
11
12     for(int days=2;days<=n;days++)
13     {
14         chocos[days] = chocos[days-1] + icecream[days-1];
15         icecream[days] = chocos[days-1];
16         if(days%k == 0)
17         {
18             icecream[days] += icecream[days-1];
19         }
20     }
21     printf("%llu", chocos[n]+icecream[n]);
22
23
24 }
```

Code did not pass the execution



Hello.c: In function 'main':
Hello.c:7:11: error: expected expression before '%' token
scanf(%d%d, &n,&k);
^

[Save](#)[Run](#)

☐ Run with a custom test case (Input/Output)