Explanation 0

The following sequence of n = 2 food items:

- Item 1 has 1 macronutrients.
- 1 + 2 − 3; observe that this is the max total, and having avoided having exactly k − 2 macronutrients.

Sample Input 1

Sample Output 1

Explanation 1

- 1. Cannot use item T because k=7 and sum $\equiv k$ has to be avoided at any time.
- Hence, max total is achieved by sum 0 + 2 2.

Sample Case 2

Sample Input For Custom Testing

Sample Input 2

Sample Output 2

Explanation 2

2 + 3 - 5, is the best case for maximum nutrients.

Answer: (penalty regime: 0 %)

```
1 Vinclude(stdig.h)
   2 - int main() {
         long long int n,t,i,nut-n;
         scenf("NIId NIId", 8m, 61);
  4
  5.
          for(1-1;1<-m;1++) {
  6
             nut-nut: i;
  7 .
             if(nut--t) (
  R
                 nut-nut-1; )}
  10
         printf("%11d", mut%10000000007);
  33 3
```

Sample Output 0

3

Explanation 0

Factoring n=10 we get (1, 2, 5, 10). We then return the $p=3^{16}$ factor as our answer.

Sample Input 1

10 5

10

Sample Output 1

0

Explanation 1

Factoring n = 10 we get (1, 2, 5, 10). There are only 4 factors and p = 5. We return 0 as our answer.

Sample Input 2

1

1

Sample Output 2

1

Explanation 2

Factoring n-1 we get (1). We then return the $p-1^{n'}$ factor as our answer.

Answer: (penalty regime: 0.%) 1 | Mincludecatdlo.8>

```
2 - int main() (
3 long long
                mann() {
long long n,p;
scant("Kijd Wild", Nn, Np);
long long count-0;
for(long long i-1;i<-n;i+) {
   it(nXi-0) {
   count-i;
   it(nXi-0) {
 5 · 7 · 8
                                  if(count--p) {
  print+("Alid\n",1);
  return 0;
 9 .
10
12
13
                         1
14
                1
15
                 printf("0\n");
16
                 return 8;
1/ )
```

	Input	Expected	Got	
4	10	5	5	4
~	199	v	ø	4
4	1	1	1	9

Passed all tests! 🗸

ineties 3 Determine all positive integer values that evenly divide into a number, its factors. Return the ρ^{th} element of your list, larked out of Fig outston For example, given the number n=20, its factors are (1,2.4.5, 10,20). Using 1-based indexing if p=2, return 4. If p>Complete the code in the editor below. The function should return a long integer value of the p^{th} integer factor of n. it has the following: n: an integer p: an integer Constraints $1 \le 0 \le 10^{13}$ 1 < p < 100 Input Format for Custom Testing Input from stdin will be processed as follows and passed to the function. The first line contains an integer o, the number to factor. The second line contains an integer ρ , the 1-based index of the factor to return. Sample Input 0 10 Sample Output 0 Explanation 0 Factoring n=10 we get (1,2,5,10). We then return the $p=3^{nd}$ factor as our answer. Sample Input 1 10 5 Sample Output 1 **Explanation 1** Factoring $\alpha=10$ we get (7, 2, 5, 10). There are only 4 factors and p=5. We return 0 as our answer. Sample Input 2 1 Sample Output 2 Explanation 2 Factoring n = 1 we get (1). We then return the $p = 1^{n}$ factor as our answer.

Answer: (penalty regime: 0 %)

bjective this challenge, we're going to use loops to help us do some simple math. Check out the Tutorial tab to learn more. iven an integer, n, print its first 10 multiples. Each multiple n X i (where 1 s i s 10) should be printed on a new line the form: $n \times i = result.$ nput Format single integer, n. Constraints $2 \le n \le 20$ Output Format Print 10 lines of output; each line i (where $1 \le i \le 10$) contains the result of $n \times i$ in the form: n x i - result.

Sample Input

2 Sample Output

2 x 1 = 2

2×3=6 2×4=8

2 x 5 = 10

2 x 6 - 12 $2 \times 7 = 14$ $2 \times 8 = 16$ $2 \times 9 = 18$

> for(1st 1-1;1<-18;1++) { int m-n*i;

Input Expected Got 2 x 1 + 2 2 x 1 + 2 2 x 2 - 4 7×1-6

2×3-6

item with value 2 has 2 macronutrients, and incrementing in this fashion.

A nutritionist is labeling all the best power foods in the market. Every food item arranged in a single line, will have a value beginning from 1 and increasing by 1 for each, until all items have a value associated with them. An item's value

is the same as the number of macronutrients it has. For example, food item with value 1 has 1 macronutrient, food

The nutritionist has to recommend the best combination to patients, i.e. maximum total of macronutrients. However, the nutritionist must avoid prescribing a particular sum of macronutrients (an 'unhealthy' number), and this sum is known. The nutritionist chooses food items in the increasing order of their value. Compute the highest total of macronutrients that can be prescribed to a patient, without the sum matching the given 'unhealthy' number

2 x 1 - 6 2 x 5 - 10 2 x 5 - 10 2 x 6 - 12 2 x 7 - 14 2 x 8 - 10 2 x 9 - 10 2 x 9 - 20 2 x 10 - 20 2 x 10 - 20

printf("Nd x Nd - Nd\n",n,i,m);

2 x 10 - 20

Answer: (penalty regime: 0.%) 1 Finclude(stdle.h)

int main() {

int no scaref("XA", in);

return 0;

10)

t







Passed all tests! V