## Problem I. Car rally

A car covers $n$ kilometers per day. How many days does it take to cover a route m kilometers long?

Input data
The program receives numbers n and m (integers, positive) as input.


## Output

Print the answer to the problem.

Examples of
int $n=0 ; \quad / / n=k i l o m e t e r s$ per day
int $m=0 ; \quad / / m=k i l o m e t e r s$ in route
int days $=0 ; \quad / /$ days to drive over route m, driving $n$ kilometers per day
std: :cin >> n >> m;
days $=(m+n-1) / n$
input data 700
750
output
2
days $=m / n ; / /$ add to days the \# of 'loops' in whole numbers
std::cout << "It takes " << days << " days. " << std::endl
input data
700
2100

3
if ( $m$ \% $n$ ! $=0$ ) // if the route has extra kilometers not equally 'looped' by km/per day,
then add extra day to cover extra km
days = days $+1 ;$
std: :cout << "It takes " << days << " days. " << std::endl;
ceiling
output
$x \circ y==0 \quad \Rightarrow \quad(x+y-1) / y=x / y \quad\left(y^{*} k+\right.$ remainder $\left.+y-1\right) / y=$

```
x%y>0 => x=y*k + remainder=>
=y*k/y + (remainder + y -1 ) / y=k + 1
```

```
c = (x + y) / y; \Leftrightarrow c = x / y + 1;
c = (x + y -1 ) / y;
x%y>0 => (x + y -1 ) / y=x/y + 1
c = ((h - a) + (a - b) -1 ) / (a - b);
```

```
x%y==0 => x=y*k =>
```

x%y==0 => x=y*k =>
(y*k+y-1)/y= y*k/y + (y-1)/y=k + 0 = k

```
(y*k+y-1)/y= y*k/y + (y-1)/y=k + 0 = k
```

