Some phone usage rate may be described as follows:

* first minute of a talk costs min1 cents,
* each minute from the 2nd up to 10th (inclusive) costs min2\_10 cents
* each minute after 10th costs min11cents.

You have S cents on your account before the call. What is the duration of the longest call (in minutes) you can have?

**Example**

For min1 = 3, min2\_10 = 1, min11 = 2 and S = 20, the output should be  
phoneCall(min1, min2\_10, min11, S) = 14.

**Input/Output**

* **[time limit] 3000ms (cs)**
* **[input] integer min1**

*Constraints:*  
1 ≤ min1 ≤ 10.

* **[input] integer min2\_10**

*Constraints:*  
1 ≤ min2\_10 ≤ 10.

* **[input] integer min11**

*Constraints:*  
1 ≤ min11 ≤ 10.

* **[input] integer S**

*Constraints:*  
2 ≤ S ≤ 60.

* **[output] integer**

<https://codefights.com/arcade/code-arcade/intro-gates/mZAucMXhNMmT7JWta>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication1

{

class Program

{

//static int phoneCall(int min1, int min2\_10, int min11, int S)

//{

// int sum = 0;

// int min;

// for ( min = 1; min <= 1; min++)

// {

// sum += min1;

// if (sum >= S)

// {

// return min;

// }

// }

// for (min = 2; min <= 10; min++)

// {

// sum += min2\_10;

// if (sum >= S)

// {

// return min;

// }

// }

// for (min = 11; ; min++)

// {

// sum += min11;

// if (sum >= S)

// {

// return 11;

// }

// }

//}

static int phoneCall(int min1, int min2\_10, int min11, int S)

{

int sum = 0;

int min;

for (min = 1; min <= 1; min++)

{

sum += min1;

if (sum == S)

{

return min;

}

else if (sum > S)

{

return min - 1;

}

}

for (min = 2; min <= 10; min++)

{

sum += min2\_10;

if (sum == S)

{

return min;

}

else if (sum > S)

{

return min - 1;

}

}

for (min = 11; ; min++)

{

sum += min11;

if (sum == S)

{

return min;

}

else if (sum > S)

{

return min - 1;

}

}

}

static void Main(string[] args)

{

//int min1 = 3, min2\_10 = 1, min11 = 2, S = 20;

//Console.WriteLine(phoneCall(min1, min2\_10, min11, S));

//int min1= 2;

//int min2\_10= 2;

//int min11= 1;

//int S = 2;

//Console.WriteLine(phoneCall(min1, min2\_10, min11, S));

//int min1= 10;

//int min2\_10= 1;

//int min11= 2;

//int S = 22;

//Console.WriteLine(phoneCall(min1, min2\_10, min11, S));

int min1= 1;

int min2\_10= 2;

int min11= 1;

int S = 6;

Console.WriteLine(phoneCall(min1, min2\_10, min11, S));

Console.ReadLine();

}

}

}