## Problem 1 – Piggy Bank

Anastas wants to buy himself a tank to drive around the streets of Sofia (he’s a fan of the classic game Carmageddon). He’s saving up and he needs your help to keep track of his progress.

**Every day** in a given month **he saves up 2 leva** and puts them in his piggy bank. **Unless there is a party** that day – he **needs** **5 leva** to buy vodka on a party day, so he **takes them out of the piggy bank**.

You will be given **the tank’s price and the number of party days in a month**, each on a separate line. Assume **each month has 30 days** and **each year has 12 months**. Calculate how many years and months Anastas will need in order to save enough to buy his very own tank and print the result on the console in the format **“X years, Y months”**. In case he isn’t saving up at all and is wasting money on cheap alcohol instead, print **“never”**.

**Note** that if, for example, Anastas needs 3.1 months, you need to **round that up** – so you have to print “0 years 4 months”. The years and months should be integer numbers. Check out the examples to understand your task better.

### Input

The input will be read from the console. The input consists of exactly **two lines**:

* On the **first line** you will be given an integer – **the price of the tank**.
* On the **second line** you will be given the **number of party days in a month**.

The input will always be valid and in the format described, there is no need to check it explicitly.

### Output

The output should be printed on the console.

* On the only output line **print the number of years and months** Anastas will need to save enough money in the **format “X years, Y months”**, or **print “never” in case he’s actually wasting money** each month.

### Constraints

* The **price** of the tank will be an integer in the range [1 … 2 000 000 000].
* The number of **party days** will be an integer in the range [0 … 30].
* Allowed working time: 0.2 seconds. Allowed memory: 16 MB.

### Examples

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comments** |
| 200000  5 | 666 years 8 months | There are 30 days in a month => 5 party days and 25 normal days. On a normal day he saves 2 leva => 25\*2 = 50 leva. On a party day he spends 5 leva => 5\*5 = 25. On average, he saves 50 – 25 = 25 leva per month.  200000/25 = 8000 – he needs exactly 8000 months. This is 666 years and 8 months, or 666.(6) years to be exact). Not gonna happen in our lifetime, thankfully! |

|  |  |
| --- | --- |
| **Input** | **Output** |
| 12345  10 | never |

|  |  |
| --- | --- |
| **Input** | **Output** |
| 24300000  0 | 33750 years, 0 months |

|  |  |
| --- | --- |
| **Input** | **Output** |
| 200  8 | 4 years, 2 months |

|  |  |
| --- | --- |
| **Input** | **Output** |
| 15999  3 | 34 years, 3 months |

using System;

class PiggyBank

{

static void Main()

{

int price = int.Parse(Console.ReadLine());

int partyDays = int.Parse(Console.ReadLine());

if (partyDays > 8)

{

Console.WriteLine("never");

}

else

{

int normalDays = 30 - partyDays;

int monthlySavings = normalDays \* 2;

int monthlyExpenses = partyDays \* 5;

int monthlyBalance = monthlySavings - monthlyExpenses;

double totalMonthsRequired = (double)price / monthlyBalance;

int result = (int)Math.Ceiling(totalMonthsRequired);

int years = result / 12;

int months = result % 12;

Console.WriteLine("{0} years, {1} months", years, months);

}

}

}