Pepper Packaging Pop Quiz - 20 Points

Due by end of hour

Introduction: You are responsible for packaging at a pepper factory. You are permitted to package peppers in groups of only 6, 11 or 13 peppers. The price to package peppers is the same, regardless of size.

You are tasked with writing a program that will calculate the most efficient way to package peppers. Your program will accept a single integer, less than 1000. It will then output the cheapest combination of packages to ship that number of peppers.

The program should display the cheapest combination of packages to ship the count of peppers. if the same minimum number of packages can be obtained in two ways, choose the one that uses more of the size-13 packages.

Sample Input/Outputs:

How many peppers will be packed?

42

42 peppers can be packed most economically in:

1 package of 13

1 package of 11

3 packages of 6

5 total packages.

How many peppers will be packed?

27

27 peppers cannot be packed.

How many peppers will be packed?

88

88 peppers can be packed most economically in:

5 packages of 13

1 package of 11

2 packages of 6

8 total packages.

Applying your Knowledge

Tweak your program to determine the answers to the following questions:

1. What is the largest number of peppers that cannot be packed?

2. How many different numbers of peppers cannot be packed?