

Prime Factors Assignment

Turn in your completed primeFactors.flx flowchart on easel.

A prime number is a whole number greater than one not divisible without a remainder by any whole number other than itself and one.

The prime factors of a value are all of the prime numbers that will exactly divide the given value.

Assignment:

Create a flowchart that will ask for a number call it X then find all of the prime factors of that number.

This flowchart must work for any value of $X > 1$.

Primitives:

1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Finding the Remainder of Division (Modulus)

Overflow:

You are to draw and test your flowchart using the Overflow program.

Rubric

%	Requirement
65	Reports all of the prime factors of the number x that is entered at least once.
25	Prime factors that are displayed are listed the proper number of times or only once. For example: X of 64 should yield 2, or 2 2 2 2 2 2 not 2 2 2.
10	1 is not displayed