Prime Factorization

ZPRAC-16-17-Lab7

Input: 52

[20 Points]
Prime Factorization
ANNOUNCEMENT: Up to 20% marks will be allotted for good programming practice. These include
- Comments for non trivial code
 Indentation: align your code properly Use of Functions: Complete the provided code to perform the given task. Fill the function primeFactors().
Implement the following procedure to find print the prime factors of a number in increasing order
1) While n is divisible by 2, print 2 and divide n by 2.2) After step 1, n must be odd. Now start a loop from i = 3 to square root of n (Why?). While i divides n,
divide n by i and print i, increment i and continue. 3) If n is a prime number and is greater than 2, then n will not become 1 by above two steps. So
print n if it is greater than 2.
Output its prime factors in increasing order
Input : An integer Output : A prime factors in increasing order with a newline after every factor
Example:
Input:
725
Output:
5
29

Output:

2

13

Constraint:

2 <= n <= 100000