

# Download How To Find Prime Factors Of A Number

Title: Find a number's prime factors in Visual Basic .NET: Description: This example shows how to find a number's prime factors in Visual Basic .NET. The prime factorization of a number involves breaking that number down to its smallest parts. This lesson will show you two different ways to discover the prime factorization of any number. A prime number (or a prime) is a natural number greater than 1 that cannot be formed by multiplying two smaller natural numbers. A natural number greater than 1 that is not prime is called a composite number. For example, 5 is prime because the only ways of writing it as a product,  $1 \times 5$  or  $5 \times 1$ , involve 5 itself. However, 6 is composite because it is the product of two numbers ( $2 \times 3$ ) that ... We can decrease the range of numbers where we look for factors. In the above program, our search range is from 2 to  $\text{num} - 1$ . We could have used the range,  $[2, \text{num} / 2]$  or  $[2, \text{num} ** 0.5]$ . The later range is based on the fact that a composite number must have a factor less than square root of that number; otherwise the number is prime., How To Find Prime Factors Of A Number.

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