

Mathematics and Algorithms Algorithms Numbers (mathematics)

## How can we select n numbers from a given sequence of number such that gcd of numbers is not equal to 1?

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### 4 Answers



Amitabha Tripathi, knows a few computational short-cuts  
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You can't always make this choice. For instance, consider a set of  $n$  primes. You are missing something here.

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Shubham Agrawal, works at Visa  
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Make a map which stores numbers which are multiple of the key. For eg. the sequence is 4, 6, 7, 8 and key is 2 so map [2] =3.

Now check for all the prime numbers whose count is equal to  $n$ . Then print 'n' numbers which are multiple of the selected prime.

Let's take an example. Given sequence is

2, 3, 5, 11, 6, 8, 9, 12, 14, 16, 15, 18, 20, 103, 1000001 and  $n = 8$ .

So clearly map of primes number would look like.

map[2]=8, map[3]=6, map[5]=2, map[7]=1, map[11]=1, map [103]=1, map[1000001]=1.

Traverse this map and check the value of the keys and match with n. In this case, for key=2 the value matches with n. So select all the multiples of the key.

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Chowkidar Deneb Shah  
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Don't select any prime numbers such as 3, 5, 7 as their GCD will be one as they are not divisible by any number.

Select numbers which are even as their minimum GCD will be 2.

Select numbers which are divisible by any digit.

eg: 10, 8, 4 here the three numbers are divisible 2. GCD means greatest common divisor. Up vote if you liked this answer.

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Mark Ross, My work as a programmer required a certain knack for math.  
Answered Jan 13, 2017 · Author has 8.8k answers and 1.2m answer views

Select 2 even numbers,

If that fails, select 2 numbers ending in 5.

If that fails, select 2 numbers whose digit sums are both 3, 6 or 9 or any combo of these.

If that fails, then you're pretty much down to examining the numbers in some detail.

You haven't really given that much to work with.

238 views

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How can we arrange numbers from 1 to n in an array such that the absolute difference of a [i]-i should be equal to a given number k?

There is a list of numbers from 1 to n and you receive a sample of 20 random numbers from this list (n is greater than 20). How can you predic...

What three numbers equal 30?

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In a sequence of N random numbers in the range [0,1], what is the expected number of numbers in the sequence that do not have any number large...

Let  $(a_n)$  be a sequence of natural numbers such that  $\limsup_{n \rightarrow \infty} \frac{a_n^2}{a_{n+1}} < 1$  . How can you prove that  $\sum_{n=1}^{\infty} \frac{1}{a_n}$  is an irrational number?

Is number 9 the most powerful number?

Find the smallest number(>1) and the largest number(<n) that is relatively prime to n, where n equals? A) 21 b) 420 c) 90

How many numbers from 1 to m\*n that is co-prime to n but not with m where gcd(n,m)=1?