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Check given number is prime number or not using c program

Definition of prime number:

A natural number greater than one has not any other divisors except 1 and itself. In other word we can say which has only two divisors 1 and number itself. For example: 5

Their divisors are 1 and 5.

Note: 2 is only even prime number.

Logic for prime number in c

We will take a loop and divide number from 2 to number/2. If the number is not divisible by any of the numbers then we will print it as prime number.

Example of prime numbers : 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97, 101, 103, 107, 109, 113, 127, 131, 137, 139, 149, 151, 157, 163, 167, 173, 179, 181, 191, 193, 197, 199 etc.

Code 1:

1. C program to determine prime number
2. Determining if a number is prime in c
3. C program to find given number is prime or not

```
#include<stdio.h>

int main(){

    int num,i,count=0;
    printf("Enter a number: ");
    scanf("%d",&num);
    for(i=2;i<=num/2;i++){
```

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```
if(num%i == 0){
    count++;
    break;
}
if(count==0 && num!= 1)
    printf("%d is a prime number", num);
else
    printf("%d is not a prime number", num);
return 0;
}
```

Sample output:

Enter a number: 5
5 is a prime number

Code 2:

1. C program for prime numbers between 1 to 100
2. How to find prime numbers from 1 to 100 in c
3. How to print prime numbers from 1 to 100 in c

```
#include<stdio.h>
```

```
int main() {
    int num, i, count;

    for(num = 1; num<=100; num++) {
        count = 0;

        for(i=2; i<=num/2; i++) {
            if(num%i==0) {
                count++;
                break;
            }

            if(count==0 && num!= 1)
                printf("%d ", num);

        }

        return 0;
    }
}
```

Output:

2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97

Code 3:

1. C program for prime numbers between 1 to n
2. C program to find prime numbers up to n
3. C program to list prime numbers
4. Write a c program to generate n prime numbers
5. C program to find n prime numbers

```
#include<stdio.h>
```

```
int main() {

    int num, i, count, n;
    printf("Enter max range: ");
    scanf("%d", &n);

    for(num = 1; num<=n; num++) {

        count = 0;

        for(i=2; i<=num/2; i++) {
            if(num%i==0) {
                count++;
                break;
            }

            if(count==0 && num!= 1)
                printf("%d ", num);

        }

        return 0;
    }
}
```

Sample output:

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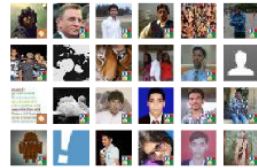
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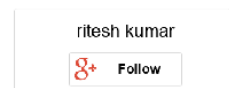
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Enter max range: 50
2 3 5 7 11 13 17 19 23 29 31 37 41 43 47

Code 4:

1. C program to find prime numbers using while loop
2. Wap to find prime numbers in c
3. Write a c program to generate prime number
4. How to get prime numbers in c

```
#include<stdio.h>

int main() {

    int num,i,count,min,max;

    printf("Enter min range: ");
    scanf("%d",&min);

    printf("Enter max range: ");
    scanf("%d",&max);

    num = min;
    while(num< max){

        count = 0;
        i=2;

        while(i<=num/2){
            if(num%i==0){
                count++;
                break;
            }
            i++;
        }

        if(count==0 && num!= 1)
            printf("%d ",num);

        num++;
    }

    return 0;
}
```

Sample output:
Enter min range: 50
Enter max range: 100
53 59 61 67 71 73 79 83 89 97

Code 5:

1. How to find out prime numbers in c programming
2. Display prime numbers in c
3. C program to find prime numbers between two numbers
4. C code to display prime numbers within a range

```
#include<stdio.h>

int main() {

    int num,i,count,min,max;

    printf("Enter min range: ");
    scanf("%d",&min);

    printf("Enter max range: ");
    scanf("%d",&max);

    for(num = min;num<=max;num++){

        count = 0;

        for(i = 2;i<= num/2;i++){
            if(num%i==0){
                count++;
                break;
            }
        }

        if(count==0 && num!= 1)
            printf("%d ",num);
    }
}
```

```

    return 0;
}

```

Sample output:

```

Enter min range: 10
Enter max range: 50
11 13 17 19 23 29 31 37 41 43 47

```

Code 6:

1. Sum of prime numbers from 1 to 100 in c

```

#include<stdio.h>

int main() {
    int num, i, count, sum=0;
    for(num = 1; num< 100; num++){
        count = 0;
        for(i=2; i<=num/2; i++){
            if(num%i==0){
                count++;
                break;
            }
        }
        if(count == 0 && num!= 1)
            sum = sum + num;
    }
    printf("Sum of prime numbers is: %d ", sum);
    return 0;
}

```

Output:

```

Sum of prime numbers is: 1060

```

Code 7:

1. C program to find sum of prime numbers

```

#include<stdio.h>

int main() {
    int num, i, count, min, max, sum=0;
    printf("Enter min range: ");
    scanf("%d", &min);
    printf("Enter max range: ");
    scanf("%d", &max);
    for(num = min; num<=max; num++){
        count = 0;
        for(i=2; i<=num/2; i++){
            if(num%i==0){
                count++;
                break;
            }
        }
        if(count==0 && num!= 1)
            sum = sum + num;
    }
    printf("Sum of prime numbers is: %d ", sum);
    return 0;
}

```

Sample output:

```

Enter min range: 50
Enter max range: 100

```

1. Write a c program to check given number is perfect number or not.

Ask C Questions



Sum of prime numbers is: 732

2. Write a c program to check given number is Armstrong number or not.
3. Write a c program to check given number is prime number or not.
4. Write a c program to reverse any number.
5. Write a c program to check given number is strong number or not.
6. Write a c program to find out sum of digit of given number.
7. Write a c program to check given number is palindrome number or not.
8. Write a c program to check given string is palindrome number or not.
9. Write a c program to find out power of number.
10. Write a c program to add two numbers without using addition operator.
11. Write a c program to subtract two numbers without using subtraction operator.
12. Write a c program to find largest among three numbers using binary minus operator.
13. Write a c program to find largest among three numbers using conditional operator
14. Write a c program to find out generic root of any number.
15. Write a c program to solve quadratic equation.
16. Write a c program which passes one dimension array to function.
17. Write a c program which passes two dimension array to function.
18. Write a c program which passes structure to function.
19. Write a c program for Floyd's triangle.
20. Write a c program to print Pascal triangle.
21. Write a c program to generate multiplication table.
22. Write a c program to get factorial of given number.
23. Write a c program to find out prime factor of given number.
24. Write a c program to find out NCR factor of given number.
25. Write a c program to print Fibonacci series of given range.
26. Write a c program to print ASCII value of all characters.
27. Write a c program to check given year is leap year or not.
28. Write a c program which takes password from user.
29. Write a scanf function in c which accept sentence from user.
30. Write a scanf function in c which accept paragraph from user.
31. Write a c program to print the all prime numbers between 1 to 300.
32. Big list of c program examples

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31 comments:



Muhammad Sonhajli Akbar 2/4/12, 9:50 AM

nice ^_^ thanks

Reply



raghav 2/8/12, 8:26 AM

awesme practise for the beginners.....full fledge programs.....:)))

Reply



pankaj khairanar 8/4/12, 5:26 AM

hello sir,

suppose i want to search prime number between 1 to 200 and want to find largest prime number between result, how i can achieve this result?

example
min value=1
max valu=10
prime numbers between 1 to 10=2,5,7
large prime=7

Reply



Anonymous 11/24/12, 2:22 PM

please tell me the use of cont variable in this program and if possible then please explain the first program.

Reply



Anonymous 1/27/13, 7:03 PM

Excellent website for beginners

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Atiq 2/17/13, 3:38 PM

no need to divide the num by 2 just take sqrt of num and increase only check odd values (except 2) much efficient program Sir....

[Reply](#)



asd 2/21/13, 9:13 PM

use this method to easily to understand

```
#include
#include
void main()
{
    int i,j,a,n;
    printf("enter the number");
    scanf("%d",&a);
    for(i=2;i<=n;i++)
    {
    }
    if(a%i==0)
    {
        printf("the number is not prime");
    }
    else
    {
        printf("the number is prime");
    }
    getch();
}
```

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Anonymous 5/19/13, 10:58 AM

What is the value of n?

[Reply](#)



Anonymous 3/2/13, 12:48 PM

really helpfl.....

[Reply](#)



Maisuriya Ankit 4/3/13, 12:08 AM

Superb.....Thanx a lot.

[Reply](#)



Unknown 4/15/13, 6:34 PM

what about 2?? for that the above logic will not work.. because $2\%2=0$, so it will not show as a prime number...

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Anonymous 9/27/13, 10:30 AM

ExInt

[Reply](#)



modir -alMODIR 4/22/13, 10:39 PM

Q 4) Write a C++ program to print all prime numbers between two limits by using do while loop.

Q 5) Write a C++ program to search an element by using binary search.

Q 6) Write a C++ program to interchange two numbers by using function.

[Reply](#)



kavIta 4/30/13, 11:34 PM

Thanks its really helps

[Reply](#)



Nadeem Khan 5/20/13, 8:05 PM

hello sir.
how can i print prime number by using if else condition. with out using any loop or other condition.
only in if else condition.....

[Reply](#)



Anonymous 5/26/13, 12:44 PM

can anyone please show the dry run of the second program please??

[Reply](#)



Saratchandra Dutta 6/25/13, 12:04 PM

How to use strcmp() in c-language , please send a one example

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[Replies](#)



Anand Barnwal 7/26/13, 12:44 PM



Anand Barnwal 7/26/13, 1:11 PM

```
#include
#include
int main(){
    char str1[30],str2[30];
    printf("Enter first string: ");
    gets(str1);
    printf("Enter second string: ");
    gets(str2);
    if(strcmp(str1,str2)==0)
        printf("Both strings are equal");
    else
        printf("Strings are unequal");
    return 0;
}
```

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Anand Barnwal 7/26/13, 1:07 PM

Program to print prime number from 1 to n.
One solution may be like this :

```
# include
main()
{
    int n, i, j, isPrime = 0;
    scanf("%d",&n );
    for(i = 2; i <= n; i++)
    {
        isPrime = 1;
        for(j = 2; j <= i/2; j++)
        {
            if(i % j == 0)
            {
                isPrime = 0;
                break;
            }
        }
        if(isPrime)
            printf("%d ", i);
    }
}
```

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Anand Barnwal 7/26/13, 1:26 PM

You can further more reduce the number of iterations.
As, for a number to be prime or not, it is not necessary to check upto 'number/2'.
Check only upto sqrt(number).
e.g.
To check 23, check '23 % i == 0' only upto 'i <= sqrt(number)' i.e. {i <= 4}.
This will always work.

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Anonymous 8/6/13, 9:51 AM

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```
#include
#include
int main()
{
    int i,j,n=100;
    for(i=2;i<=n;i++)

    {

        for(j=2;j<=i;j++)

        {

            if(i%j==0)

                break;

        }

    }

    if(i==j)

        printf("%d\n",i);
    }
    system("PAUSE");
}
```

In this program why 4 is not printed?when 14 and j=4 then it should be print 4 as prime number(program works correctly :)). i dont understand nested loops.Can anybody please explain me the working of this program for say,n=10.i reach at 3 but 4 makes me in trouble.

[Reply](#)



ankan sengupta 8/14/13, 8:36 AM

In a global Mathematics contest, the contestants are told to invent some special numbers which can be built by adding the squares of its digits. Doing this perpetually, the numbers will end up to 1 or 4.

If a positive integer ends with 1, then it is called the Number of Game.

An example from above is:

$13 = 1^2 + 3^2 = 1 + 9 = 10$ (Step:1)

$10 = 1^2 + 0^2 = 1 + 0 = 1$ (Step:2), iteration ends in Step 2 since number ends with 1

Then in next round, the contestants are asked to combine their newly invented number, i.e. Number of Game with prime number.

Now, being a smart programmer, write a program to help the contestants to find out the Nth combined number within any given range, where N can be any integer.

Input Format:

Input consists of 3 integers X, Y, N, one on each line. X and Y are upper and lower limits of the range. The range is inclusive of both X and Y. Find Nth number in range [X,Y].

Line 1

X,where X is the upper limit of the range

Line 2

Y,where Y is the lower limit of the range

Line 3

N,where Nth element of the series is required

Constraints:

$X \leq Y$

$X > 0$

$N > 0$

Output Format:

Output will show the Nth element of the combined series lying in the range between X and Y.

Line 1

For Valid Input,print

U,where U is the Nth element of the combined number series lying in the range between X and Y.

Or

No number is present at this index

For Invalid Input,print

Invalid Input

Sample Input and Output

SNo. Input Output
1 1,30,3 19

2 12,33,5 No number is present at this index

3 -5,@,4 Invalid Input

[Reply](#)



ankan sengupta 8/14/13, 8:37 AM

please answer how to solve this?

[Reply](#)



nishu lal 8/23/13, 5:44 PM

wap to find out the sum of all numbers between 1 to 100 which are divisible by 7 can plz any i can solve this?

[Reply](#)



Anonymous 9/20/13, 10:43 PM

```
if n=1
1
1
if n=2
1
2*2
2*2
1
like this for n=1 to 100
```

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Anonymous 9/27/13, 11:01 AM

can anyone please say how count works in the first program??

[Reply](#)



Sanni Raj 10/16/13, 11:54 AM

```
#include
#include
#include

int main()
{
    int num,i,count=0;
    clrscr();
    printf("Enter a number:\n");
    scanf("%d",&num);
    for(i=2;i<=sqrt(num);i++)
    {
        if(num%i==0)
        {
            count++;
            break;
        }
    }
    if(count>0)
        printf("Not a prime");
    else
        printf("%d is a prime number",num);
    getch();
    return 0;
}
```

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Anonymous 10/23/13, 10:07 PM

can you please explain working

[Reply](#)

abhi ram 12/17/13, 11:46 AM

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Write a program that checks if a given number is prime but does not belong to the fibonacci series. The program should return 1 if the number is prime and does not belong to the fibonacci series or 0 otherwise

[Reply](#)



Anonymous 12/18/13, 8:38 AM

```
#include
#include

void main (void)
{
int score1,score2,score3,average,rating1,rating2,call=0,reject=0,offer=0,choice=1;
char name;

while(choice==1)
{
printf("Enter name of Candidate");
scanf("%c",&name);
printf("\nscore of test1:");
scanf("%d",&score1);
printf("\nscore of test2:");
scanf("%d",&score2);
printf("\nscore of test3:");
scanf("%d",&score3);
printf("Enter Rating 1 of candidate .");
printf("and enter Rating 2 of candidate :");
scanf("%d%d",&rating1,&rating2);
average=((score1+score2+score3)/3);
if(score1>75 && score2>75 && score3>75 && average>80)
{
printf("the candidate selected for interview");
call++;
}
else
{
printf("rejection letter is sent");
reject++;
printf("press 1 if you want to continue Else press any number\n");
scanf("%d",&choice);
continue;
}
printf("Enter round1 marks");
scanf("%d",&rating1);
printf("Enter round2 marks");
scanf("%d",&rating2);

if (rating1>5 && rating2>7)
{
printf("Offer letter has been sent\n");
offer++;
}
else
{
printf("rejection letter has been sent\n");
reject++;
continue;
}
printf("\nPress 1 if you want to continue else press any other number\n");
scanf("%d",&choice);

printf("the number of candidates whom offer letter has been sent:%d\n",offer);
printf("the number of candidates called for interview:%d\n",call);
printf("the number of candidates whom rejection letter has been sent:%d\n",reject);
getch();
}
}
```

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