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200801199@rajalakshmi.edu.in

NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Problem Solving Through Programming In C (course)

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Course outline

- How does an NPTEL online course work? ()
- Week 0 : ()
- Week 1 ()
- Week 2 ()
- Week 3 ()
- Week 4 ()
- Week 5 ()
- Week 6 ()
- Week 7 ()

Week 11 : Programming Assignment 4

Due on 2023-10-12, 23:59 IST

Write a C program to check whether the given input number is Prime number or not using recursion. So, the input is an integer and output should print whether the integer is prime or not.

Note that you have to use recursion.

Your last recorded submission was on 2023-10-11, 11:17 IST

Select the Language for this assignment. C

```c
#include <stdio.h>
int checkPrime(int, int); //Function to check prime or not

int main()
{
    int num, check;
    scanf("%d", &num); //The number is taken from test case data
    check = checkPrime(num, num/2);
    if (check == 1)
    {
        printf("%d is a prime number\n", num);
    }
    else
    {
        printf("%d is not a prime number\n", num);
    }
    return 0;
}
int checkPrime(int num, int i)
{
    if (i == 1)
        return 1;
    else
    {
       if (num % i == 0)
         return 0;
       else
         return checkPrime(num, i - 1);
    }
}
```

Week 8 ()
Week 9 ()
Week 10 ()
Week 11 ()
Week 12 ()
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You may submit any number of times before the due date. The final submission will be considered for grading.

This assignment has Public Test cases. Please click on "Compile & Run" button to see the status of Public test cases. Assignment will be evaluated only after submitting using Submit button below. If you only save as or compile and run the Program , your assignment will not be graded and you will not see your score after the deadline.

Save as Draft | Compile & Run | Submit | Reset

Sample Test Cases

	Input	Output
Test Case 1	13	13 is a prime number
Test Case 2	40	40 is not a prime number