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Explorer

main.c

main.c | Save | Run | Stop

```c
#include <stdio.h>
int isPrime(int num) {
    if (num <= 1) {
        return 0;
    }
    for (int i = 2; i * i <= num; i++) {
        if (num % i == 0) {
            return 0;
        }
    }
    return 1;
}

int main() {
    int start, end;
    printf("Enter the range to find prime numbers (start end): ");
    scanf("%d %d", &start, &end);

    printf("Prime numbers between %d and %d are: ", start, end);
    for (int i = start; i <= end; i++) {
        if (isPrime(i)) {
            printf("%d ", i);
        }
    }
```

Output

```
/tmp/a.out
Enter the range to find prime numbers (start end): 10
100
```

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Explorer

main.c

main.c | Save | Run

```c
#include <stdio.h>
int reverseNumber(int num) {...
}

int isPalindrome(int num) {
    int reversedNum = reverseNumber(num);
    return num == reversedNum;
}

int main() {
    int num;
    printf("Enter a number to check if it is a palindrome: ");
    scanf("%d", &num);

    if (isPalindrome(num)) {
        printf("The number %d is a palindrome.\n", num);
    } else {
        printf("The number %d is not a palindrome.\n", num);
    }

    return 0;
}
```

Output

```
/tmp/a.out
Enter a number to check if it is a palindrome: 050700
0507003
The number 507003 is not a palindrome.
```

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Explorer

main.c

main.c | Save | Run

```
        i++;
        bin1 /= 10;
        bin2 /= 10;
    }
    if (carry != 0) {
        result += carry * pow(10, i);
    }
    return result;
}

int main() {
    int bin1, bin2;
    printf("Enter first binary number: ");
    scanf("%d", &bin1);
    printf("Enter second binary number: ");
    scanf("%d", &bin2);

    int sum = addBinary(bin1, bin2);
    printf("Sum of the two binary numbers: %d\n",
    sum);

    return 0;
}
```

Output

```
/tmp/a.out
Enter first binary number: 05
Enter second binary number: 08
Sum of the two binary numbers: 61
```

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Explorer

main.c

main.c | Save | Run

```c
#include <stdio.h>
int isLeapYear(int year) {

    if ((year % 4 == 0 && year % 100 != 0) ||
    (year % 400 == 0)) {
        return 1;
    } else {
        return 0;
    }
}

int main() {
    int year;
    printf("Enter a year: ");
    scanf("%d", &year);

    if (isLeapYear(year)) {
        printf("%d is a leap year.\n", year);
    } else {
        printf("%d is not a leap year.\n", year);
    }

    return 0;
}
```

Output

```
/tmp/a.out
Enter a year: 1968
1968 is a leap year.
```

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main.c

main.c | Save | Run | Stop

```c
#include <stdio.h>
int isPrime(int num) {
    if (num <= 1) {
        return 0;
    }
    for (int i = 2; i * i <= num; i++) {
        if (num % i == 0) {
            return 0;
        }
    }
    return 1;
}

int main() {
    int start, end;
    printf("Enter the range to find prime numbers (start end): ");
    scanf("%d %d", &start, &end);

    printf("Prime numbers between %d and %d are: ", start, end);
    for (int i = start; i <= end; i++) {
        if (isPrime(i)) {
            printf("%d ", i);
        }
    }
```

Output

```
/tmp/a.out
Enter the range to find prime numbers (start end): 10
100
```

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