

main.c

```
1 #include <stdio.h>
2
3 int main() {
4     int n;
5     printf("Enter a number: ");
6     scanf("%d", &n);
7
8     if(n % 2 == 0)
9         printf("%d is Even", n);
10    else
11        printf("%d is Odd", n);
12
13    return 0;
14 }
15
```



Share

Run

Output

Enter a number: 4
4 is Even



main.c

```
1 #include <stdio.h>
2
3 int main() {
4     int n, temp, rev=0, r;
5     printf("Enter number: ");
6     scanf("%d", &n);
7
8     temp = n;
9     while(temp){
10        r = temp % 10;
11        rev = rev*10 + r;
12        temp /= 10;
13    }
14
15    if(rev == n)
16        printf("Palindrome");
17    else
18        printf("Not Palindrome");
19
20    return 0;
21}
22
23
```

Run Share

Output

Enter number: 234
Not Palindrome

I

main.c

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

int main() {
    int n, temp, sum=0, digits=0, r;
    printf("Enter number: ");
    scanf("%d", &n);

    temp = n;
    while(temp){ digits++; temp /= 10; }

    temp = n;
    while(temp){
        r = temp % 10;
        sum += pow(r, digits);
        temp /= 10;
    }

    if(sum == n)
        printf("Armstrong");
    else
        printf("Not Armstrong");

    return 0;
}
```



Run

Output

Enter number: 53

Not Armstrong

I

main.c

```
1 #include <stdio.h>
2
3 int main() {
4     int a, b, temp;
5     printf("Enter a and b: ");
6     scanf("%d %d", &a, &b);
7
8     temp = a;
9     a = b;
10    b = temp;
11
12    printf("After swap: a=%d b=%d", a, b);
13
14    return 0;
15 }
```



Output

Enter a and b: 5

6

After swap: a=6 b=5

main.c

```
1 #include <stdio.h>
2
3 int main() {
4     int n, a=0, b=1, c;
5     printf("Enter n: ");
6     scanf("%d", &n);
7
8     printf("%d %d ", a, b);
9     for(int i=3;i<=n;i++){
10         c = a + b;
11         printf("%d ", c);
12         a = b;
13         b = c;
14     }
15     return 0;
16 }
17
18
19
20
21
```

Run Share

Output

Enter n: 5
0 1 1 2 3

```
main.c
1 #include <stdio.h>
2
3 int main() {
4     int n, flag=1;
5     printf("Enter number: ");
6     scanf("%d", &n);
7
8     if(n < 2) flag = 0;
9
10    for(int i=2; i*i<=n; i++)
11        if(n % i == 0)
12            flag = 0;
13
14    if(flag)
15        printf("Prime");
16    else
17        printf("Not Prime");
18
19    return 0;
20 }
21
22
23
24
25
26
```

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Output

Enter number: 9
Not Prime

main.c

```
1 #include <stdio.h>
2
3 long fact(long n){
4     long f=1;
5     for(int i=1;i<=n;i++) f*=i;
6     return f;
7 }
8
9 int main() {
10     long n, r;
11     printf("Enter n and r: ");
12     scanf("%ld %ld", &n, &r);
13
14     long result = fact(n) / (fact(r)*fact(n-r));
15     printf("nCr = %ld", result);
16
17     return 0;
18 }
19
20
21
22
23
24
25
```



Output

Enter n and r: 7

5

nCr = 21

I

```
#include <iostream.h>
```

```
int main() {
    int n;
    printf("Enter size: ");
    scanf("%d", &n);

    int a[n];
    printf("Enter array: ");
    for(int i=0;i<n;i++)
        scanf("%d", &a[i]);

    int max = a[0];
    for(int i=1;i<n;i++)
        if(a[i] > max) max = a[i];

    printf("Maximum = %d", max);

    return 0;
}
```



Run

Output

```
Enter size: 4
Enter array: 1
2
3
4
Maximum = 4
```

```
*** Code Execution
```

main.c

```
1 #include <stdio.h>
2
3 struct Book {
4     char title[50];
5     char author[50];
6     float price;
7 }
8
9 int main() {
10    struct Book b;
11
12    printf("Enter title: ");
13    scanf("%s", &b.title);
14
15    printf("Enter author: ");
16    scanf("%s", &b.author);
17
18    printf("Enter price: ");
19    scanf("%f", &b.price);
20
21    printf("\nBOOK DETAILS:\n");
22    printf("Title: %s\nAuthor: %s\nPrice: %.2f",
23           b.title, b.author, b.price);
24
25    return 0;
26
27 }
```

C

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Run

Output

Enter title: maths
Enter author: euler
Enter price: 900

BOOK DETAILS:
Title: maths
Author: euler

Price: 900.00

--- Code Execution Succeeded ---

```
main.c
1 #include <stdio.h>
2
3 struct Book {
4     char title[50];
5     char author[50];
6     float price;
7 }
8
9 int main() {
10     struct Book b, *p;
11     p = &b;
12
13     printf("Enter title: ");
14     scanf("%s", p->title);
15
16     printf("Enter author: ");
17     scanf("%s", p->author);
18
19     printf("Enter price: ");
20     scanf("%f", &p->price);
21
22     printf("\nBOOK DETAILS:\n");
23     printf("Title: %s\nAuthor: %s\nPrice: %.2f",
24           p->title, p->author, p->price);
25
26
27 }
28
29
```

Run Share

Output

I
Enter title: mats
Enter author: euler
Enter price: 900

BOOK DETAILS:
Title: mats
Author: euler
Price: 900.00

--- Code Execution Successful ---

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

```
int main() {
    char c;
    printf("Enter a character: ");
    scanf(" %c", &c);
    if(c=='a'||c=='e'||c=='i'||c=='o'||c=='u'||c=='A'||c=='E'||c=='I'||c=='O'||c=='U')
        printf("Vowel");
    else
        printf("Not Vowel");
}
return 0;
```



Output

Enter a character: e
Vowel

main.c

```
1 #include <stdio.h>
2
3 struct Student {
4     int roll;
5     char name[50];
6     int marks;
7 };
8
9 int main() {
10     struct Student s[10];
11
12     printf("Enter data of 10 students:\n");
13     for(int i=0;i<10;i++){
14         printf("\nRoll: ");
15         scanf("%d", &s[i].roll);
16         printf("Name: ");
17         scanf("%s", s[i].name);
18         printf("Marks: ");
19         scanf("%d", &s[i].marks);
20     }
21
22     printf("\nStudents with marks > 150:\n");
23     for(int i=0;i<10;i++){
24         if(s[i].marks > 150){
25             printf("%d %s %d\n",
26                   s[i].roll, s[i].name, s[i].marks);
27         }
28     }
29
30     return 0;
31 }
```

Run

Output

Enter data of 10 students:

Roll: |

Share

