

25-11-2025

1) program to find a strong number.

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

```
#include <conio.h>
```

```
int main()
```

```
{
```

```
    int num, temp, rem;
```

```
    int sum = 0, fact;
```

```
    printf("enter a number:");
```

```
    scanf("%d", &num);
```

```
    temp = num;
```

```
    while (temp > 0)
```

```
    {
```

```
        rem = temp % 10; // extract digit
```

```
        // calculate factorial of rem
```

```
        fact = 1;
```

```
        for (int i = 1; i <= rem; i++)
```

```
        {
```

```
            fact *= i;
```

```
        }
```

```
        sum += fact; // add factorial to sum
```

```
        temp /= 10; // remove last digit
```

```
    }
```

```
    if (sum == num)
```

```
        printf("%d is a strong number.\n", num);
```

```
    else
```

```
        printf("%d is NOT a strong number.\n", num);
```

```
return 0;  
}
```

2) program to find a perfect number.

```
#include <stdio.h>  
#include <conio.h>  
int main ()  
{  
    int num, sum=0;  
    printf("enter a number:");  
    scanf("%d", &num);  
    {  
        if (num % i == 0)  
        {  
            sum += i; // add divisor  
        }  
    }  
    if (sum == num)  
        printf("%d is a perfect number.\n", num);  
    else  
        printf("%d is NOT a perfect number.\n", num);  
    return 0;  
}
```