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A strong number is a number whose Sum of the factorial of its digits equals the number i

1. 145

1! = 1 4! = 24 5! = 120

Sum = 1 + 24 + 120 = 145 ⟶ strong number.

```
#include <stdio.h>
   int main( )
  {
     int num, temp, digit;
      long long fact, Sum=0;
   printf ("Enter a number:");
   Scanf("%d", &num);
   temp= num;
  While (temp>0) {
      digit= temp %10;
     fact =1;
   for (int i=1; i<=digit; i++) {
     fact *=i;
   }
     Sum+ =fact;
     temp/ =10;
  }  if (sum==num)
     printf ("%d is a Strong number.\n", num
     else
```

```
printf("%d is NOT a strong Number.\n", num);
  return 0;
}
```

```
Enter a number: 145
145 is a strong Number
```

2) Perfect Number:- A perfect Number is a number that is equal to the sum of its proper divisors

28 ⟶ Divisors: 1, 2, 4, 7, 14 ⟶ Sum = 28.

```
#include <stdio.h>
  int main()
  {
    int num, Sum=0;
  Printf("Enter a number:");
  Scanf("%d", &num);
  for(int i=1; i<=num/2; i++)
  {
    if(num % i==0)
    {
      Sum += i;
    }
  }
    if(sum==num)
    printf("%d is a perfect Number.\n", num);
  else
    printf("%d is NOT a perfect Number.\n", num);
```

```
return 0;
}
```

Output:

```
Enter a Number: 28
```

28 is a perfect Number.