



c program

TEAM

PALANI VEL M
MOHAMED THOUFIQ U
KISHORE R
MURUGANANTHAM V





c program

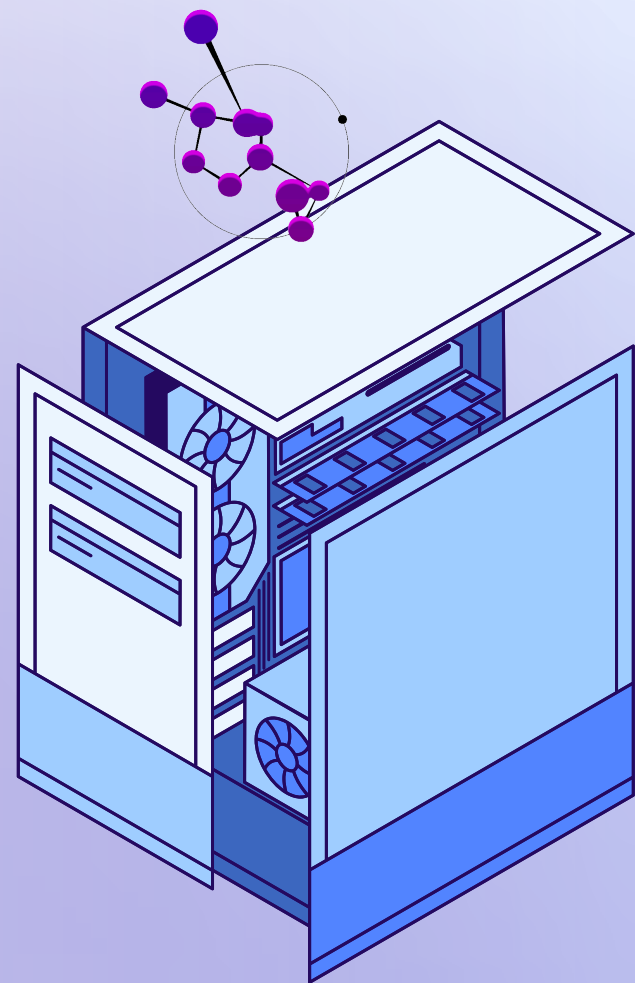
NEON



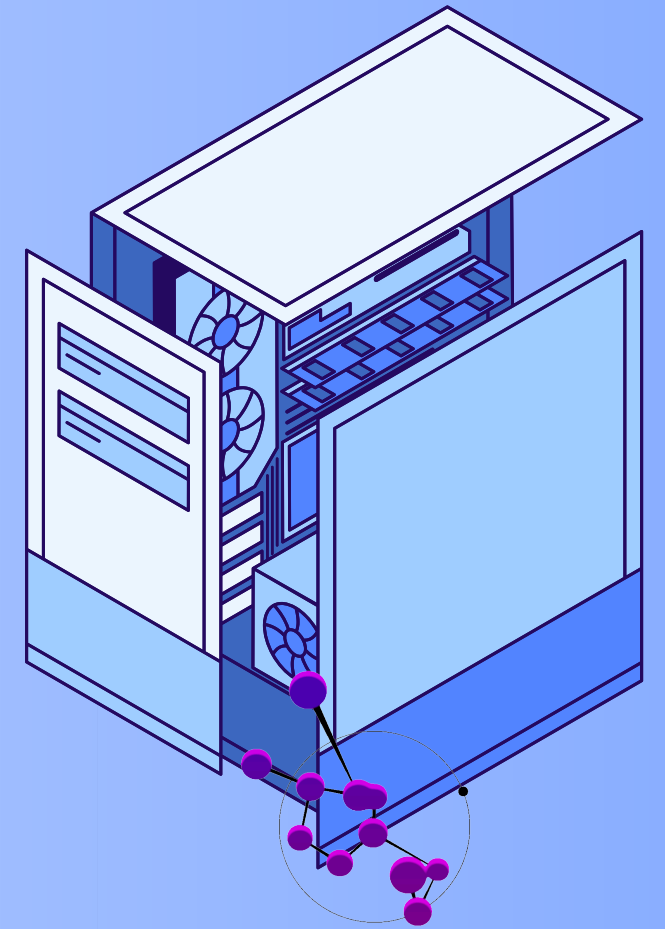
NUMBER



WHAT IS NEON NUMBER?



Given a number (num) we need to check whether it is a Neon Number (i.e. a number where the sum of digits of the square of the number is equal to the number) and return "its neon number" or "its not noen number" accordingly.





c program

FOR

EXAMPLE

Example:

Input: num = 9

Output: its noen number

Explanation: square of 9 is $9 * 9 = 81$, sum of digit of square is $8 + 1 = 9$ (i.e equal to given number).

Input: num = 10

Output: its not neon number

Explanation: Square of 10 is $10 * 10 = 100$, sum of digit of square is $1 + 0 + 0 = 1$ (i.e. not equal to given number).



c program

ALGORITHM

At first, we need to find the square of the given number.

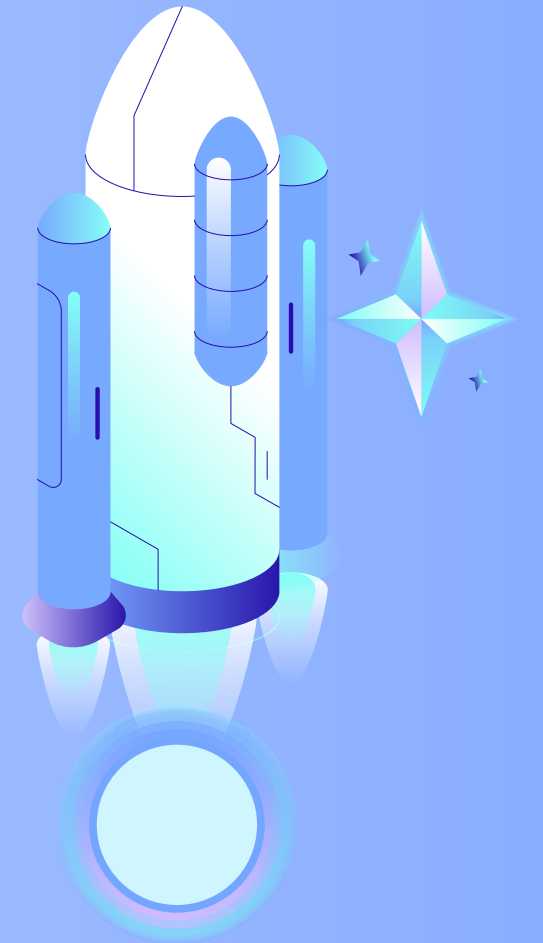
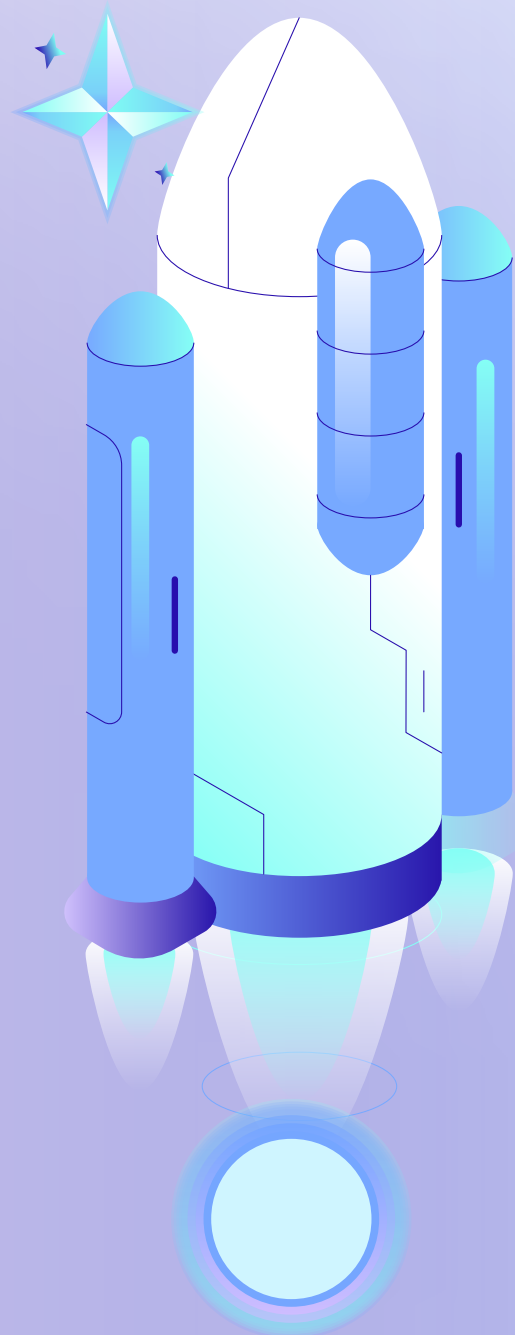
Then we need to extract the digits of the square of the number using a loop.

Then we need to calculate the sum of digits.

At last, we need to check the sum with the given number, and the Outcome will be:

if the sum is equal to the given number , " its neon number" .

if the sum is not equal to the given number, "its not neon number".





c program

CODE

```
#include <stdio.h>
int Neon(int num)
{ int square,sum=0;
```

```
square = num * num;
```

```
while (square > 0)
{
sum = sum+square % 10;
square /= 10;
}
return (sum == num);
}
```

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

```
if (Neon(num))
{
printf("%d is a neon number.\n", num);
}
else
{
printf("%d is not a neon number.\n", num);
}
```




c program

THANK YOU!