

BASICS

What is a palindrome?

A Number or a word or a phrase if read backwards gives the same number or a word or a phrase as it is being read forward.

Example: 1221, racecar, 24542 etc.

Idea:

Make last number the first number, 2nd last number the second number and so on...

That means you need to reverse the number and if the reversed number is equal to the actual number then we can say that the number is palindrome.

What happens when we divide the number by 10?

456/10 -> Remainder = 6
 quotient = 45

```
result = 0  
number = 2332  
q = number
```

```
remainder = q%10  
result = result*10 + remainder  
q = q/10
```



Management x

Projects Symbols

Workspace

Start here x palindrome.c x

```
1  #include <stdio.h>
2
3  int main() {
4      int n, result=0, q, rem;
5      printf("Please enter the number: ");
6      scanf("%d", &n);
7
8      q = n;
9
10     while(q!=0)
11     {
12         rem = q%10;
13         result = result*10 + rem;
14         q = q/10;
15     }
16
17     if(result == n)
18         printf("Its a palindrome");
19     else
20         printf("No! its not a palindrome");
21     return 0;
22 }
23
```