

Do While Loop, Break and Continue in C

do while loop

- do {
 statement
} while(*expression*);
- for(*initialization*; *conditional-test*; *increment*) *statement*;
- *initialization*;
do
{
 statement;
 increment;
} while(*conditional-test*);

do while loop

- Test is at the bottom
- Will execute at least once
- do

{

...

ch=getche();

} while(ch!='q');

- Common error
 - Forgetting the semicolon (;) after while

do while loop

do while

```
#include<stdio.h>

int main()
{
    int i=0;
    do
    {
        printf("%d\n", i);
        i++;
    } while(i<=9);
    return 0;
}
```

for

```
#include<stdio.h>

int main()
{
    int i=0;
    for(i=1; i<=9; i++) {
        printf("%d\n", i);
    }
    return 0;
}
```

Use of break

```
#include<stdio.h>

int main()
{
    int i, num, is_prime = 1;
    printf("Enter the number to test: ");
    scanf("%d", &num);
```

```
    for( i=2; i<=num/2; i++) {
        if(num%i == 0) {
            is_prime=0;
            break;
        }
    }
    if(is_prime)
        printf("%d is prime\n", num);
    else
        printf("%d is not prime\n", num);
    return 0;
}
```

Use of continue

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

```
int main() {  
    int i;  
    for ( i = 0; i < 10 ; i++) {  
        if ( i == 5) {  
            continue;  
        }  
        printf("%d\n", i);  
    }  
    return 0;  
}
```

Output:

0

1

2

3

4

6

7

8

9