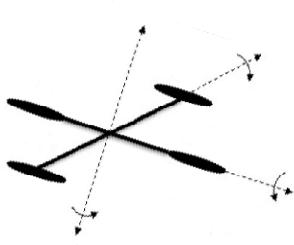


+

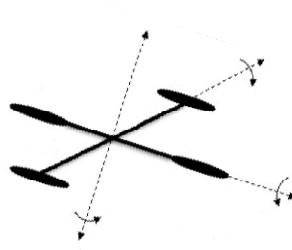
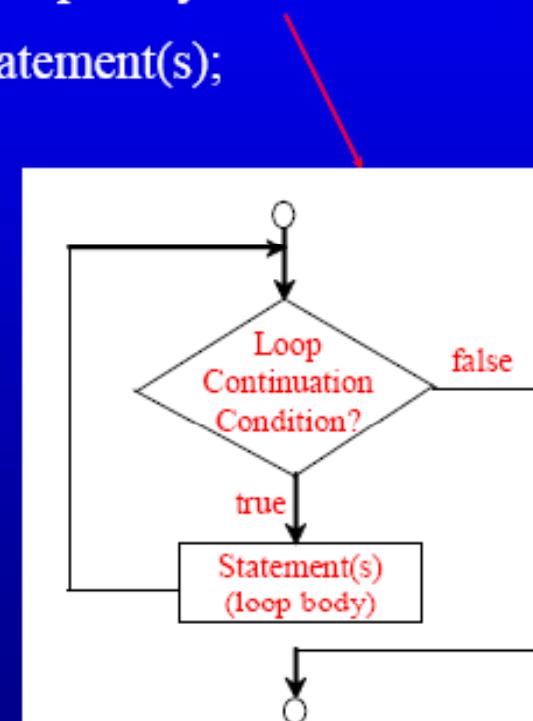
반복문

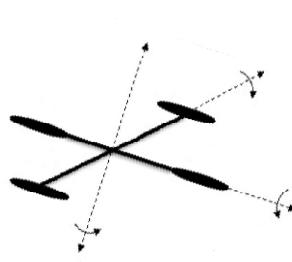
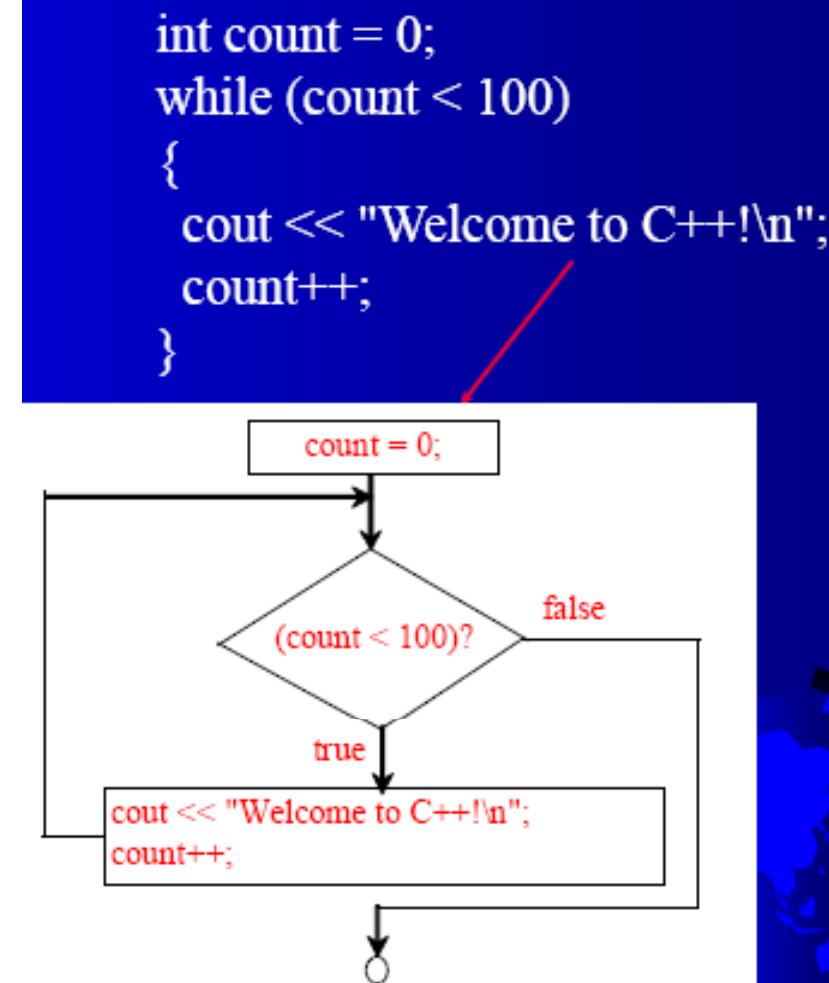




- while 문

```
while (loop-continuation-condition)
{
    // loop-body;
    Statement(s);
}
```

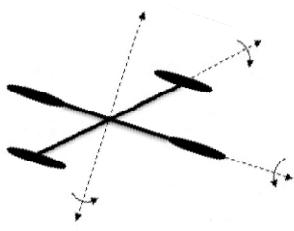






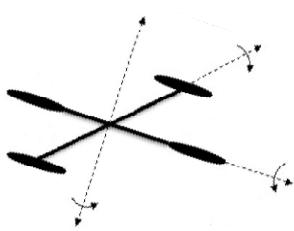
```
int count = 0;  
while (count < 2)  
{  
    cout << "Welcome to C++!";  
    count++;  
}
```

count 초기화



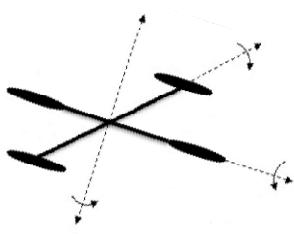
```
int count = 0;  
while (count < 2)  
{  
    cout << "Welcome to C++!";  
    count++;  
}
```

(count < 2)이면 true



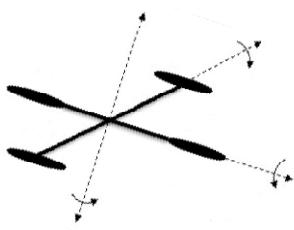
```
int count = 0;  
while (count < 2)  
{  
    cout << "Welcome to C++!";  
    count++;  
}
```

Welcome to C++ 출력



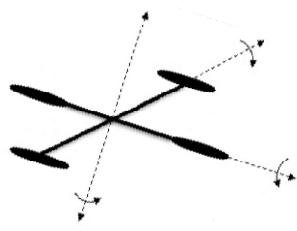
```
int count = 0;  
while (count < 2)  
{  
    cout << "Welcome to C++!";  
    count++;  
}
```

count를 1씩 증가
현재 count는 1



```
int count = 0;  
while (count < 2)  
{  
    cout << "Welcome to C++!";  
    count++;  
}
```

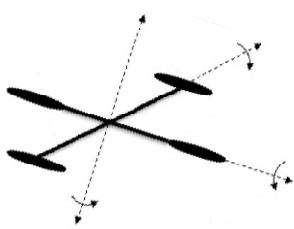
count가 10이므로 (count < 2)는
true





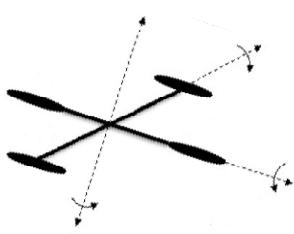
```
int count = 0;  
while (count < 2)  
{  
    cout << "Welcome to C++!";  
    count++;  
}
```

Welcome to C++ 출격



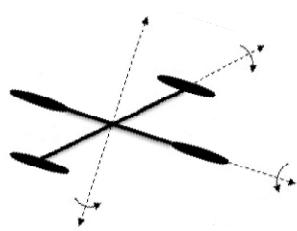
```
int count = 0;  
while (count < 2)  
{  
    cout << "Welcome to C++!";  
    count++;  
}
```

count 1 증가, count는 2가 됨



```
int count = 0;  
while (count < 2)  
{  
    cout << "Welcome to C++!";  
    count++;  
}
```

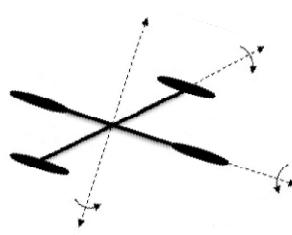
count가 20이므로 (count < 2)는
false





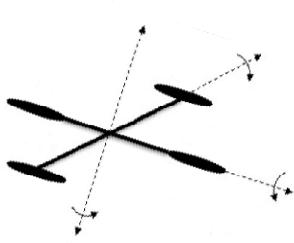
```
int count = 0;  
while (count < 2)  
{  
    cout << "Welcome to C++!";  
    count++;  
}
```

루프가 끝나고 다음 문장을 수행





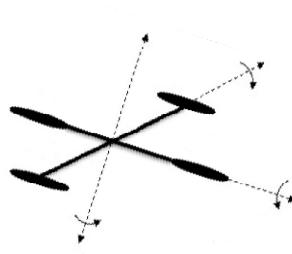
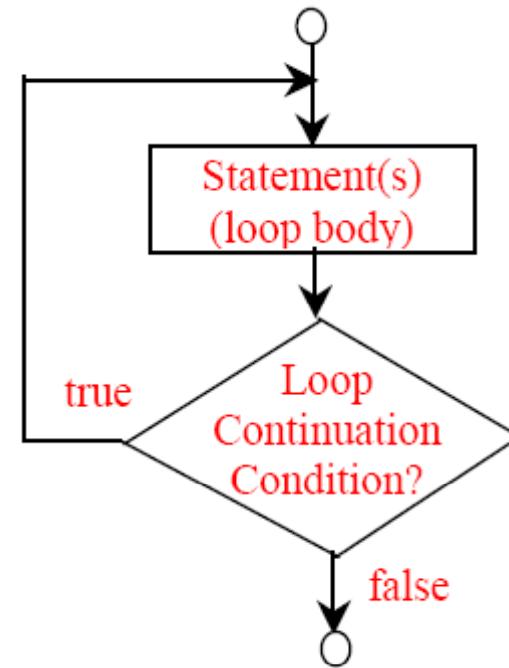
```
char continueLoop = 'Y';
while (continueLoop == 'Y')
{
    // Execute body once
    // Prompt the user for confirmation
    cout << "Enter Y to continue and N to quit: ";
    cin >> continueLoop;
}
```





- do - while 문

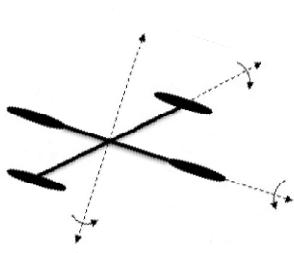
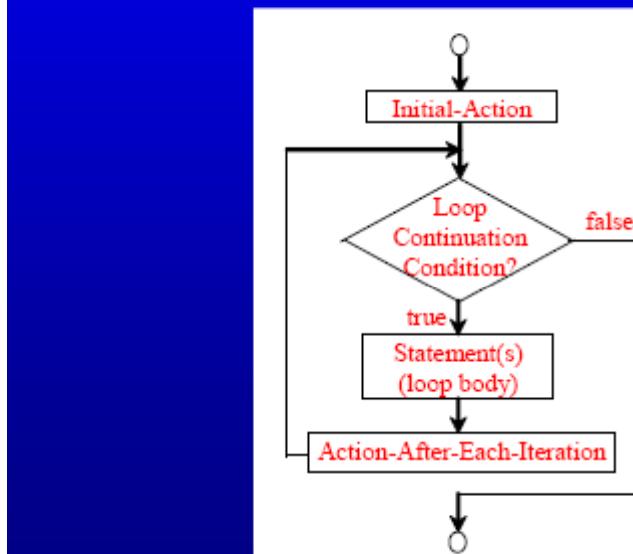
```
do  
{  
    // Loop body;  
    Statement(s);  
} while (loop-continuat
```





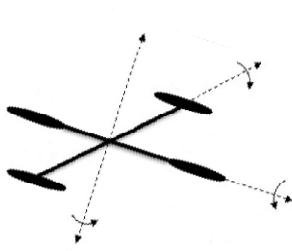
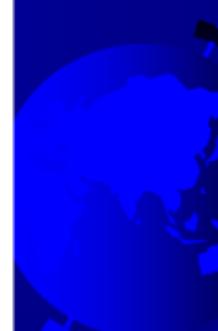
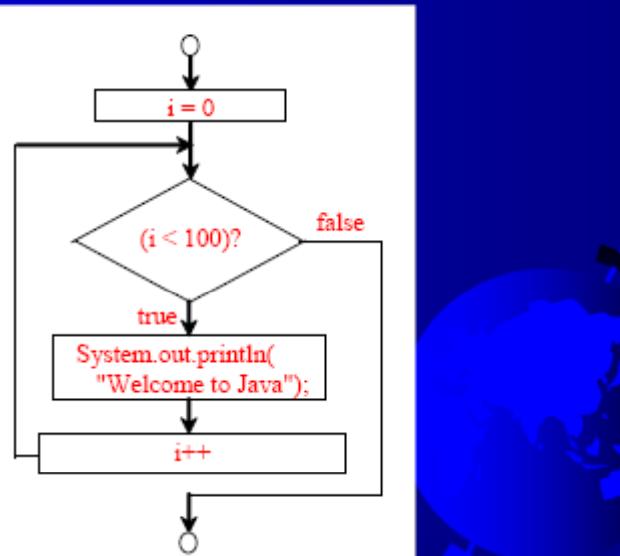
- for 문

```
for (initial-action; loop-continuation-  
    condition; action-after-each-  
    iteration)  
{  
    // loop body;  
    Statement(s);  
}
```



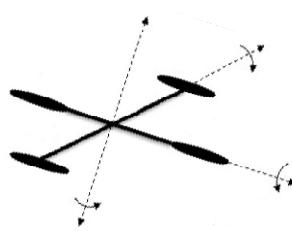


```
int i;  
for (i = 0; i < 100; i++)  
{  
    cout << "Welcome to C++!\n";  
}
```



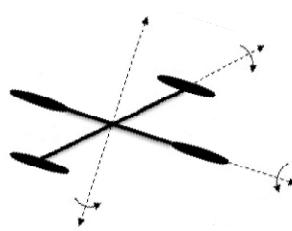
```
int i;
for (i = 0; i < 2; i++)
{
    cout << "Welcome to C++!";
}
```

i 선언



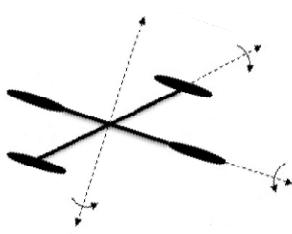
```
int i;  
for (i = 0; i < 2; i++)  
{  
    cout << "Welcome to C++!";  
}
```

i가 0으로 초기화됨



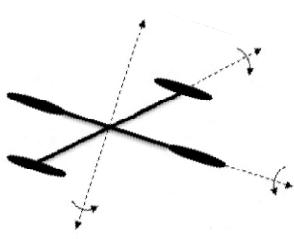
```
int i;  
for (i = 0; i < 2; i++)  
{  
    cout << "Welcome to C++!"  
}
```

i가 0이므로 (i < 2)는 true



```
int i;
for (i = 0; i < 2; i++)
{
    cout << "Welcome to C++!";
}
```

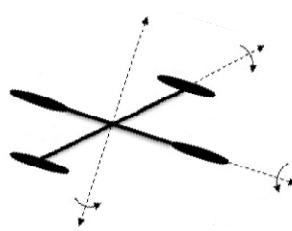
Welcome to C++! 출력





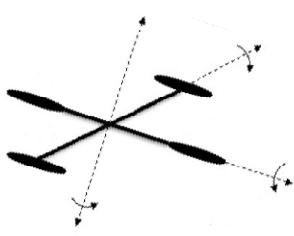
```
int i;  
for (i = 0; i < 2; i++)  
{  
    cout << "Welcome to C++!";  
}
```

반복 후에 수행하여 i는 1이 됨



```
int i;  
for (i = 0; i < 2; i++)  
{  
    cout << "Welcome to C++!";  
}
```

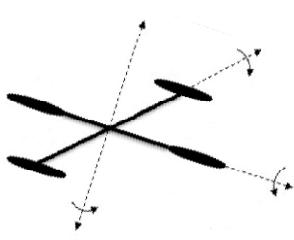
i가 10이므로 (i < 2) 는 true





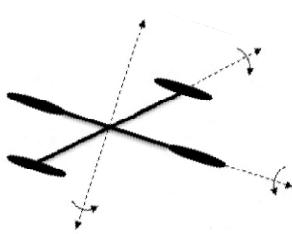
```
int i;
for (i = 0; i < 2; i++)
{
    cout << "Welcome to C++!";
}
```

Welcome to C++ 출력



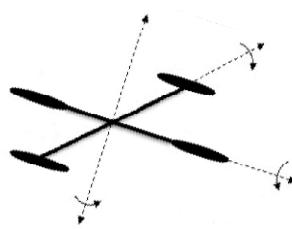
```
int i;
for (i = 0; i < 2; i++)
{
    cout << "Welcome to C++!";
}
```

반복 후에 수행하여 i는 2가 됨



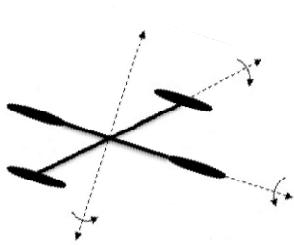
```
int i;  
for (i = 0; i < 2; i++)  
{  
    cout << "Welcome to C++!";  
}
```

i가 2이므로 (i < 2)는 false



```
int i;
for (i = 0; i < 2; i++)
{
    cout << "Welcome to C++!";
}
```

루프가 끝나고 루프 후의 문장이
수행됨





```
#include <iostream>
using namespace std;

int main()
{
    // Prompt the user to enter two integers
    cout << "Enter first integer: ";
    int n1;
    cin >> n1;

    cout << "Enter second integer: ";
    int n2;
    cin >> n2;
```

```
int gcd = 1;
int k = 1;
while (k <= n1 && k <= n2)
{
    if (n1 % k == 0 && n2 % k == 0)
        gcd = k;
    k++;
}
```

```
cout << "The greatest common divisor for " << n1 << " and "
     << n2 << " is " << gcd << endl;

system("PAUSE");
return EXIT_SUCCESS;
```

