

100
101
102
103

Initialization

$i = 100;$

$i \leq 103$ is OK

while ($i < 104$)

{

printf ("%d\n", i);

$i = i + 1;$

}

use while if
boundaries unknown

test

100	103
101	104
102	

loop body

loop alter

for (initialization; test; loop alter)

{

loop body

}

```

100
101
102
103

```

for ($i = 100; i < 104; i = i + 1$)

{

printf ("%d\n", i);

}

use for if boundaries are known

SEE M:\ECE-160\public\inch2feet\inch

(also see next page for text listing of program written in class on ccomputer)

```
#define _CRT_SECURE_NO_WARNINGS
#include <stdio.h>
// program to print table showing inches and equivalent feet-inches
// from user specified start to user specified end BY user specified interval
int main()
{
    int wholeinch, feet, inch;
    int start_wholeinch, end_wholeinch, inc_wholeinch;

    printf("Enter start value: ");
    scanf("%d", &start_wholeinch);
    printf("Enter end value: ");
    scanf("%d", &end_wholeinch);
    printf("Enter increment: ");
    scanf("%d", &inc_wholeinch);
    printf("inches  feet-inch\n");

    for (wholeinch = start_wholeinch; wholeinch <= end_wholeinch;
wholeinch = wholeinch + inc_wholeinch)
    {
        feet = wholeinch / 12;
        inch = wholeinch % 12;
        printf("%4d\    %2d' %2d\"\n", wholeinch, feet, inch);
    }
}
```