

```
int days, years, weeks;
```

```
/* Input total number of days from user */
```

```
printf("Enter days: ");
```

```
scanf("%d", &days);
```

```
/* Conversion */
```

```
years = (days / 365); // Ignoring leap year
```

```
weeks = (days % 365) / 7;
```

```
days = days - ((years * 365) + (weeks * 7));
```

```
/* Print all resultant values */
```

```
printf("YEARS: %d\n", years);
```

```
printf("WEEKS: %d\n", weeks);
```

```
printf("DAYS: %d", days);
```

```
return 0;
```

days: 1343

YEARS: 3

WEEKS: 35

DAYS: 3

Process returned 0 (0x0) execution time : 4.578 s

Press any key to continue.


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

```
int main()
```



```
float x, y, x2, y2, distance;
```

```
printf("Input x: ");
```

```
scanf("%f", &x);
```

```
printf("Input y: ");
```

```
scanf("%f", &y);
```

```
printf("Input x2: ");
```

```
scanf("%f", &x2);
```

```
printf("Input y2: ");
```

```
scanf("%f", &y2);
```

```
distance = ((x2-x)*(x2-x)) + ((y2-y)*(y2-y));
```

```
printf("Distance between the points: %.4f", sqrt(distance));
```

```
printf("\n");
```

```
return 0;
```



Input x1: 41
Input y1: 23
Input x2: 56
Input y2: 84
Distance between the points: 62.3699

Process returned 0 (0x0) execution time : 6.018 s
Press any key to continue.


```
float E, M, N, P, Z;
```

```
printf("Input the first value: ");
```

```
scanf("%f", &E);
```

```
printf("Input the second value: ");
```

```
scanf("%f", &M);
```

```
printf("Input the third value: ");
```

```
scanf("%f", &N);
```

```
if (E < (M+N) && M < (E+P) && Z < (E+M))
```

```
{  
P = E+M+N;
```

```
printf("\nPerimeter = %.1f\n", P);
```

Input the first value: 50

Input the second value: 23

Input the third value: 71

Perimeter = 144.0

Process returned 20 (0x14)

execution time : 5.991 s

Press any key to continue.


```
int age;
```

```
int cnt_baby=0, cnt_school=0, cnt_adult=0;
```

```
int count=0;
```

```
while(count<15)
```

```
{
```

```
    printf("Enter age of person [%d]: ", count+1);
```

```
    scanf("%d", &age);
```

```
    if(age>=0 && age<=5)
```

```
        cnt_baby++;
```

```
    else if(age>=6 && age<=17)
```

```
        cnt_school++;
```

```
    else
```

```
        cnt_adult++;
```

```
    count++;
```

```
printf("Enter age of person :");  
scanf("%d", &age);
```

```
if(age >= 0 && age <= 5)  
    cnt_baby++;  
else if(age >= 6 && age <= 17)  
    cnt_school++;  
else  
    cnt_adult++;
```

15
16
17
18
19
20


```
Enter age of person [1]: 1
Enter age of person [2]: 2
Enter age of person [3]: 3
Enter age of person [4]: 5
Enter age of person [5]:
```

```
54
Enter age of person [6]: 454
Enter age of person [7]: 545
Enter age of person [8]: 54
Enter age of person [9]: 5
Enter age of person [10]: 4
Enter age of person [11]: 5
Enter age of person [12]: 5
Enter age of person [13]: 5
Enter age of person [14]: 5
Enter age of person [15]: 5
```

```
Baby age: 11
School age: 0
Adult age: 4
```

```
Process returned 0 (0x0)   execution time : 35.746 s
Press any key to continue.
```



```
int random_genNo=0, count=0, num;
int stime;
long ltime;

//initialise srand with current time, to get random number on every
ltime = time(NULL);
stime = (unsigned) ltime/2;
srand(stime);

//generate random number
random_genNo=rand()%1000;

//END INFINITE LOOP
while(1)
{
    //increase variable
    count+=1;

    //add user input
```



```
int main() {
    int count = 0;
    int random_genNo = rand() % 1000;

    //infinite loop
    while(1)
    {
        //increase counter
        count++;

        //read number from user
        printf("\n\nGuess a number from (0 to 1000): ");
        scanf("%d", &num);

        //compare entered number with generated number

        if(random_genNo==num) {
            printf("Congratulations, you have guessed a correct number.");
            break;
        }
        else if(random_genNo < num) {
            printf("Generated number is less than entered number, try your luck again...");
        }
    }
}
```

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Run: Debug in new 4 (compiler: GNU GCC Compiler) -----

Instance: C:\Users\Emmanuel.Wonighan\Desktop\asu_iss\new 4\bin\Debug\new 4.exe

Program Files (x64)\CodeBlocks\cb_console_runner.exe "C:\Users\Emmanuel.Wonighan\Desktop\asu_iss\new 4\bin\Debug\new 4.exe"

```
//compare entered number with generated number
if(random_genNo==num) {
    printf("Congratulations, you have guessed a correct number.");
    break;
}
else if(random_genNo<num) {
    printf("Generated number is less than entered number, try your luck again...");
}
else if(random_genNo>num) {
    printf("Generated number is greater than entered number, try your luck again...");
}

if(count==7) {
    printf("\n\n### Maximum limit of attempt finished, BAD LUCK !!!\n");
    break;
}
```


Generated number is greater than entered number, try your luck again...

Enter a number from (0 to 1000): 35
Generated number is greater than entered number, try your luck again...

Enter a number from (0 to 1000): 40
Generated number is greater than entered number, try your luck again...

Enter a number from (0 to 1000): 90
Generated number is greater than entered number, try your luck again...

Enter a number from (0 to 1000): 200
Generated number is greater than entered number, try your luck again...

Enter a number from (0 to 1000): 6500
Generated number is less than entered number, try your luck again...

Enter a number from (0 to 1000): 1000
Generated number is less than entered number, try your luck again...

Maximum limit of attempt finished, BAD LUCK !!!

Process returned 0 (0x0) execution time : 20.671 s
Press any key to continue.

Input the first value: 45

Input the second value: 70

Input the third value: 80

Not possible to create a triangle..!

Process returned 36 (0x24) execution time : 5.188 s

Press any key to continue.