

Convert 1343 days into years, weeks and days

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

int main()
{
    int days, years, weeks;
    days = 1343;
    years = days/365;
    weeks = (days % 365)/7;
    days = days - ((years*365) + (weeks*7));
    printf("years: %d\n", years);
    printf("weeks: %d\n", weeks);
    printf("days: %d\n", days);

    return 0;
}
```

"C:\Users\HP\Desktop\C Programs\Rona Assignment\bin\Debug\Rona Assignment.exe"

```
years: 3
weeks: 35
days: 3
```

```
Process returned 0 (0x0)   execution time : 0.031 s
Press any key to continue.
```

Calculate the distance between two points

```
main.c X main.c X main.c X
1  #include <stdio.h>
2  #include <stdlib.h>
3
4  int main()
5  {
6      float x1,y1,x2,y2,distance;
7      int main()
8      {
9          float x1,y1,x2,y2,distance;
10
11         return 0;
12     }
13
14     printf("input x1:");
15     scanf("%f", &x1);
16     printf("input y1:");
17     scanf("%f", &y1);
18     printf("input x2:");
19     scanf("%f", &x2);
20     printf("input y2:");
21     scanf("%f", &y2);
22     distance = ((x2-x1)*(x2-x1))+((y2-y1)*(y2-y1));
23     printf("Distance between the two points = %4f",sqrt(distance));
24     printf("\n");
25
26     return 0;
27 }
28
```

```
Code::BLOCKS 17.12
u "C:\Users\HP\Desktop\C Programs\Distance between points\bin\Debug\Distance between points.exe"
input x1:10
input y1:100
input x2:50
input y2:200
Distance between the two points = 107.703296
Process returned 0 (0x0)   execution time : 23.632 s
Press any key to continue.
```

Reads values and forms a triangle

```
int main()
{
    float x, y, z, P;
    printf("\nInput Length of first side: ");
    scanf("%f", &x);
    printf("\nInput Length of second side: ");
    scanf("%f", &y);
    printf("\n InputLength of third side: ");
    scanf("%f", &z);

    if(x < (y+z) && y < (x+z) && z < (y+x))
    {
        P = x+y+z;
        printf("Triangle can be formed");
        printf("\nPerimeter = %.1f\n", P);
    }
    else
    {
        printf("Sorry unable to create a triangle");
    }
    return 0;
}
```

"C:\Users\HP\Desktop\C Programs\test\bin\Debug\test.exe"

Input Length of first side: 10

Input Length of second side: 20

InputLength of third side: 30

Sorry unable to create a triangle

Process returned 0 (0x0) execution time : 44.271 s

Press any key to continue.

```
Input Length of first side: 10
```

```
Input Length of second side: 10
```

```
InputLength of third side: 10
```

```
Triangle can be formed
```

```
Perimeter = 30.0
```

```
Process returned 0 (0x0) execution time : 4.329 s
```

```
Press any key to continue.
```

Read ages

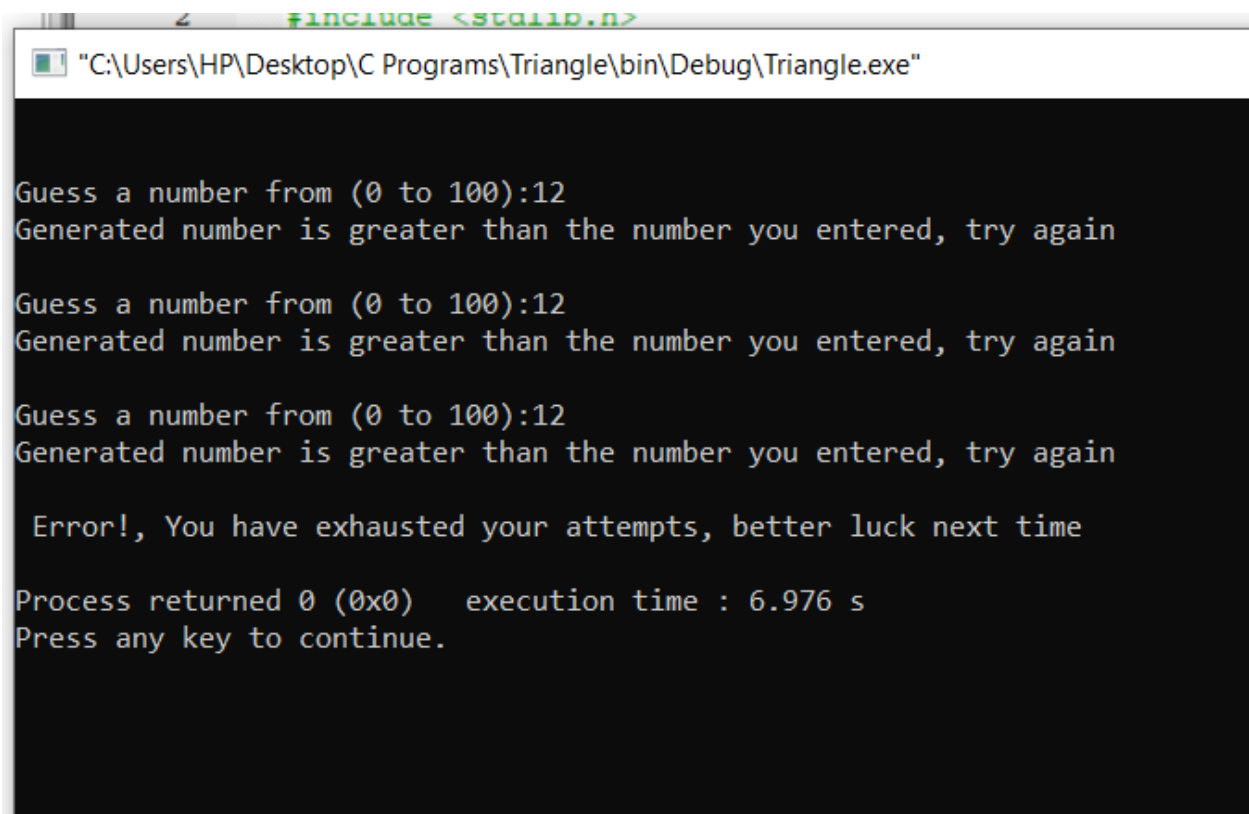
```
3
4  int main()
5  {
6      int age;
7      int cnt_baby=0,cnt_school=0,cnt_adult=0;
8
9      int count=0;
10
11     while(count<20)
12     {
13         printf("Enter person's age [%d]: ",count+1);
14         scanf("%d",&age);
15
16         if(age>=0 && age<=4)
17             cnt_baby++;
18         else if(age>=5 && age<=17)
19             cnt_school++;
20         else
21             cnt_adult++;
22
23         count++;
24     }
25
26     printf("Still a baby: %d\n",cnt_baby);
27     printf("Still in School: %d\n",cnt_school);
28     printf("Adult life: %d\n",cnt_adult);
29     return 0;
30 }
31 "C:\Users\HP\Desktop\C Programs\Ages\bin\Debug\Ages.exe"
```

```
Enter person's age [1]: 1
Enter person's age [2]: 2
Enter person's age [3]: 3
Enter person's age [4]: 4
Enter person's age [5]: 5
Enter person's age [6]: 6
Enter person's age [7]: 7
Enter person's age [8]: 8
Enter person's age [9]: 9
Enter person's age [10]: 8
Enter person's age [11]: 6
Enter person's age [12]: 5
Enter person's age [13]: 4
Enter person's age [14]: 3
Enter person's age [15]: 4
Enter person's age [16]: 5
Enter person's age [17]: 6
Enter person's age [18]: 7
Enter person's age [19]: 3
Enter person's age [20]: 2
Still a baby: 9
Still in School: 11
Adult life: 0
```

```
Process returned 0 (0x0)   execution time : 12.732 s
Press any key to continue.
```

Read random number and guess

```
1  #include <stdio.h>
2  #include <stdlib.h>
3
4  int main()
5  {
6      int random_genNo=0, count=0, num;
7      int stime;
8      long ltime;
9      ltime = time(NULL);
10     stime = (unsigned) ltime/2;
11     srand(stime);
12     random_genNo=rand()%100;
13     while (1)
14     {
15         count++;
16         printf("\n\nGuess a number from (0 to 100):");
17         scanf("%d", &num);
18         if(random_genNo==num){
19             printf("Congrats you guessed the correct number.") ;
20             break;
21         }
22         else if(random_genNo<num){
23             printf("Generated number is less than the number you entered, try again") ;
24         }
25         else if(random_genNo>num){
26             printf("Generated number is greater than the number you entered, try again") ;
27         }
28         if (count==3){
29             printf("\n\n Error!, You have exhausted your attempts, better luck next time\n") ;
30             break;
31         }
32     }
33     return 0;
34 }
35
```



```
4  #include <stdlib.h>
"C:\Users\HP\Desktop\C Programs\Triangle\bin\Debug\Triangle.exe"
Guess a number from (0 to 100):12
Generated number is greater than the number you entered, try again

Guess a number from (0 to 100):12
Generated number is greater than the number you entered, try again

Guess a number from (0 to 100):12
Generated number is greater than the number you entered, try again

Error!, You have exhausted your attempts, better luck next time

Process returned 0 (0x0)   execution time : 6.976 s
Press any key to continue.
```