

2
/C PROGRAM TO CALCULATE THE TWO POINTS

int main()

float x1, y1, x2, y2, distance;

printf("input x1: ");

scanf("%f", &x1);

printf("input y1: ");

scanf("%f", &y1);

printf("input x2: ");

scanf("%f", &x2);

printf("input y2: ");

scanf("%f", &y2);

distance = ((x2-x1)*(x2-x1)+(y2-y1)*(y2-y1));

printf("distance = %f", sqrt(distance));

printf("\n");

return 0;

2

```
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//generate random number;
random_genNo = rand()%100;

//loop
while(1)
{
    count++;

    printf("\n\nGuess a number from (0 to 100)");
    scanf("%d", &num);

    //comparing entered number with generated number
    if(random_genNo == num)
    {
        printf("You have guessed a correct number");
        break;
    }
    else if(random_genNo < num)
    {
        printf("Generated number is less than entered number, try again");
    }
    else if(random_genNo > num)
    {
        printf("Generated number is greater than entered number, try again");
    }

    //TO MAKE SURE THE ATTEMPTS ARE 7
    if(count == 7)
    {
        printf("\n\nMaximum limits of attempts finished");
    }
}
return 0;
```

length: 1,219 lines: 67

1

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int days, years, weeks;
6
7     printf("Enter day(1843): ");
8     scanf("%d", &days);
9
10    years = (days / 365); //IGNORING LEAF YEAR
11    weeks = (days % 365) / 7;
12    days = days - ((years * 365) + (weeks * 7));
13
14    printf("YEARS: %d\n", years);
15    printf("WEEKS: %d\n", weeks);
16    printf("DAYS: %d\n", days);
17
18    return 0;
19 }
```

1

```
int main()
{
    int age;
    int baby_count=0, school_count=0, adult_count=0;
    int count=0;

    //USING WHILE LOOP
    while(count<15)
    {
        printf("Enter age of person [%d]: ", count+1);
        scanf("%d", &age);

        if(age >= 0 && age <= 5)
        {
            baby_count++;
        }

        else if(age >= 6 && age <= 17)
        {
            school_count++;
        }

        else
        {
            adult_count++;
        }

        //INCREASE COUNTER
        count++;
    }

    printf("Total number of baby count: ");
    printf("Total number of school count: ");
    printf("Total number of adult count: ");

    return 0;
}
```

4

3

```
int main()
{
    float x, y, z, P, A;
    printf("\n Input the first number: ");
    scanf("%f", &x);

    printf("\n Input the first number: ");
    scanf("%f", &y);

    printf("\n Input the third number: ");
    scanf("%f", &z);

    if(x < (y+z) && y < (x+z) && z < (y+x))
    {
        P = x+y+z;
        printf("\n Perimeter = %.2f\n", P);
    }

    else
    {
        printf("\n Not possible to form a triangle.");
    }
}
```

e file

