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```c
int
{
    printf("This program collect the age of 20 people and counts thems into 3 groups. \n");
    int Age[20];
    int  a = 0 ;
    while( a < 20){
            printf("Enter age:");
            scanf("%d", &Age[a]);
            a++;
    }
    int i = Age[0];
    int group1, group2, group3;
    for(a =0; a, a<20; a++){
            if (Age[a] < 4){
                group1++;
            }
            else if( 5<= Age[a] <=17){
                group2++;
            }
            else if(Age[a]>=17){
                group3++;
            }
    }
    printf("No. of babies: %d \n", group1);
    printf("No. attending school: %d \n", group2);
    printf("No. of Adults: %d \n", group3);

    return 0;

}
```

Start here | Assignment2(Q4).C | Assignment2(Q3).C | **Assignment2(Q2).c** | Assignm

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

int main()
{
    printf("This program calculates the distance between two point P1 and P2. \n");
    int X1, Y1;
    int X2, Y2;
    printf("X1:");
    scanf("%d", &X1);
    printf("X2:");
    scanf("%d", &X2);
    printf("Y1:");
    scanf("%d", &Y1);
    printf("Y2:");
    scanf("%d", &Y2);
    float distance;
    int x = pow((X2 - X1), 2);
    int y = pow((Y2 - Y1), 2);
    distance = sqrtf(( x + y ));
    printf("The distance between P1 and P2 is  %f", distance);

    return 0;

}
```

Start here | Assignment2(Q4).C | **Assignment2(Q3).C** | Assignment2(Q2).c | Assignment2(Q1).C

```c
#include <stdio.h>

int main()
{
    printf("This programs collects three floating point number and cheks to see if they can form a triangle if so then it finds the perimeter of triangle \n");
    float A, B,C;
    printf("A:");
    scanf("%f", &A);
    printf("B:");
    scanf("%f", &B);
    printf("C:");
    scanf("%f", &C);
    int p ;
    if ((A + B) > C and (A+C) > B and (B+C) > A){
        p = A + B + C;
         printf("The perimeter of the traingle is %d", p );
    }
    else{
        printf("The values do not agree  with the inequality theorem.");
    }
    return 0;

}
```

Start here | Assignment2(Q5).C

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

int main()
{
    time_t t;
    srand((unsigned) time(&t));
    int rand_number;
    rand_number = rand() % 100;
    int a = 0;
    int n;
    while(a < 7 ){
        printf("Enter a Number:");
        a++;
        scanf("%d", &n);
        if( n ==  rand_number){
            printf("You Win !!!!!");
            a = 7;
            }
        else{
            if( n < rand_number){
                printf(" %d is too small \n",n);
            }
            else if( n > rand_number){
                printf("%d is too big \n", n);
            }
        }
        if( a ==7){
            printf("You lose!!!");
        }
    }

    return 0;

}
```

Start here | Assignment2(Q4).C | Assignment2(Q3).C | Assignment2(Q2).c | **Assignment2(Q1).C**

```c
#include <stdio.h>

int main()
{
        printf ("This program converst 13434 days first into years then weeksa and finally days. \n");
        int y, w, d;
        int n = 1343;
        y = n / 365;
        w = y * 52;
        d = n;
        printf ("Years: %d \n", y);
        printf ("Weeks: %d \n", w);
        printf ("Days: %d \n", d);

        return 0;

}
```