Assignment 1 Solutions

Q.1 Input----Three integers on three lines.
Output ------1 if the three inputs are different from each other
            0 if some input is repeated more than once.

Sol. #include <stdio.h>

    int main()
    {
        int a;
        int b;
        int c;
        scanf("%d", &a);
        scanf("%d", &b);
        scanf("%d", &c);
        if((a==b) || (b==c) || (a==c))
        {
            printf("0\n");
        }
        else
        {
            printf("1\n");
        }
        return 0;
    }
Q.2 You are given two integers, say M and N.

You must check whether M is an exact multiple of N, without using loops.

You have to output 0 if M is not a multiple of N.
You have to output M/N if M is a multiple of N.

Input------Two integers, say M and N.

Output------You have to output 0 if M is not a multiple of N.
You have to output M/N if M is a multiple of N.

Sol. #include <stdio.h>

int main()
{
    int m;
    int n;
    int quotient;
    scanf("%d", &m);
    scanf("%d", &n);
    quotient = m/n;
    if(quotient*n == m)
    {
        printf("%d\n", quotient);
    }
    else
    {
        printf("0\n");
    }
    return 0;
}
Q.3 Input : Triplet of three numbers (a,b,c)
   Output : 1 if a>b>c
            0, otherwise

Sol. #include<stdio.h>

    int main()
    {
        int a,b,c;
        scanf("%d %d %d", &a,&b, &c);
        if((a>b) && (b>c))
        {
            printf("1");
        }
        else
        {
            printf("0");
        }
        return 0;
    }