Problem 1 (Marks: 20)

Handed out: 13 September
Due: 17 September 8:30 am

You will be given the traffic light status of a 4-way road. Your task is to find if there will be an accident or not on the base of the traffic lights.

Input

Read 8 variables R1, G1, R2, G2, R3, G3, R4, G4. All these variables will either take 1 or 0 as input. If R1 = 1, Red light of Traffic Light 1 is ON and for R1 = 0 Red light of Traffic Light 1 is OFF.
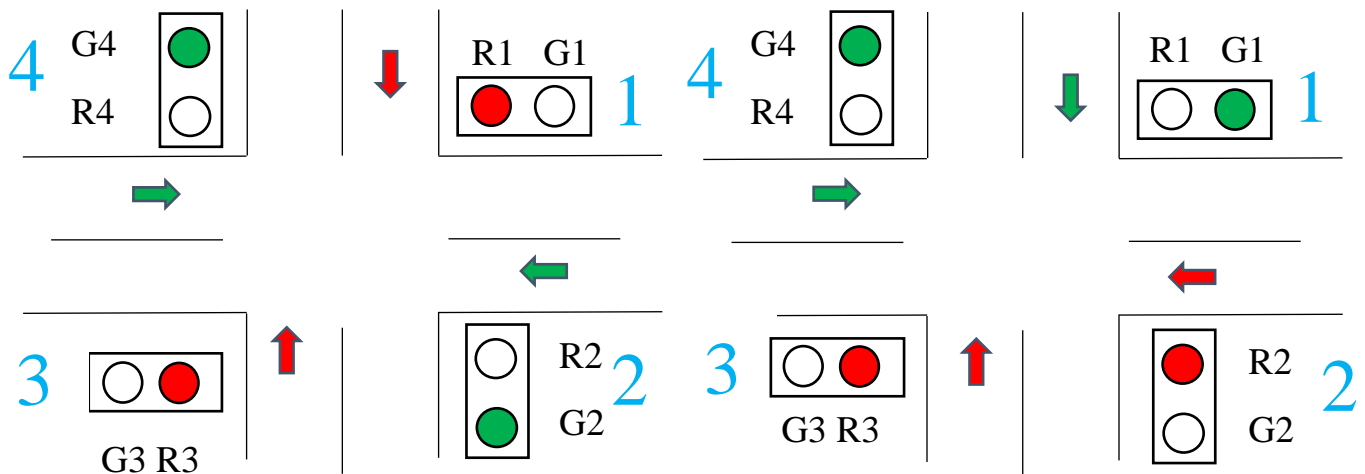

Figure 1(a)   Figure 1(b)

Output

If there is a chance of an accident based on the status of the traffic lights your output should be 1, else 0.

Figure 1(a) depicts such a scenario where G2 and G4 is on. Hence, there will be no chance of an accident. So, your output should be 0.

Figure 1(b) depicts another scenario where G1 and G4 is on. Hence, there will be an accident. So, your output should be 1.

Sample Input & Output

R1, G1, R2, G2, R3, G3, R4, G4: 1 0 0 1 1 0 0 1
Output: 0 (No Accident)

R1, G1, R2, G2, R3, G3, R4, G4: 0 1 1 0 1 0 0 1
Output: 1 (Accident)

Collaboration

In no circumstances you are allowed to share your code with others. If a case arises as such both the provider and receiver will get straight zero. However, you can share ideas on how to approach the problem.

Submission

Submit your file as **Your_10_digit_sudent_id.c**, e.g. if a student's id is 2013-3-60-23 his code should be saved as 2013-3-60-23.c