```
age = "17"
   citizenship = "true"
   if (age>"18" && citizenship == "true" ){
        console.log("can vote")
        console.log("can not vote")
20 age = "20"
21 invitation = "true";
   if (age>= 21 || invitation == "true"){
        console.log("canEnterClub")
        console.log("can not Enter club")
34 member = false;
35 age = 70;
   if (age>= 65 || member == true){
        console.log("Eligible for discount")
    } else {
        console.log("not eligible for discount")
47 gpa = 3.6;
48 extracurriculars = true ;
   recommendation = false;
   if (gpa>=3.5 && extracurriculars == true || recommendation == true){
        console.log("isEligible for scholarship")
    } else {
        console.log("not eligible for scholarship")
```

```
Question 1: Voting Eligibility
**Scenario:** Determine if a person is eligible to vote.
**Inputs:**
**Outputs:**
**Algorithm:**

    Check if the age of the person is 18 or older.
    Check if the person has citizenship.
    If both conditions are true, print `canVote`.
    Otherwise, print `can not Vote`.

**Example:**
- Input: `age = 20`, `citizenship = true`
- Output: `canVote
### Question 2: Admission to a Club
**Scenario:** Determine if a person can enter a club.
**Inputs:**
**Outputs:**
    canEnterClub
**Algorithm:**
**Example:**
  Input: `age = 20`, `hasInvitation = true`
Output: `canEnterClub`
### Question 3: Discount Eligibility
**Scenario:** Determine if a person is eligible for a discount at a store.
**Inputs:**
   `isMember` (boolean)
`age`
**Outputs:**
**Algorithm:**
1. Check if the person is a member.
2. Check if the person is a senior (65 years old or older).
3. If either condition is true, print `isEligibleForDiscount`.
4. Otherwise, set `isNotEligibleForDiscount`.
**Example:**
- Input: `isMember = false`, `age = 70`
- Output: `isEligibleForDiscount`
### Question 4: Scholarship Eligibility
**Scenario:** Determine if a student is eligible for a scholarship.
**Inputs:**
    `extracurriculars` (boolean)
`recommendation` (boolean)
**Outputs:**

    Check if the student participates in extracurricular activities.
    Check if the student has a recommendation letter.

4. If the GPA is 3.5 or higher AND either participation in extracurricular activities or a recommendation letter is true, print `isEligibleForScholarship`.
5. Otherwise, set `isNotEligibleForScholarship`.
**Example:**
- Input: 'gpa = 3.6', 'extracurriculars = true', 'recommendation = false'
- Output: 'isEligibleForScholarship'
```

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