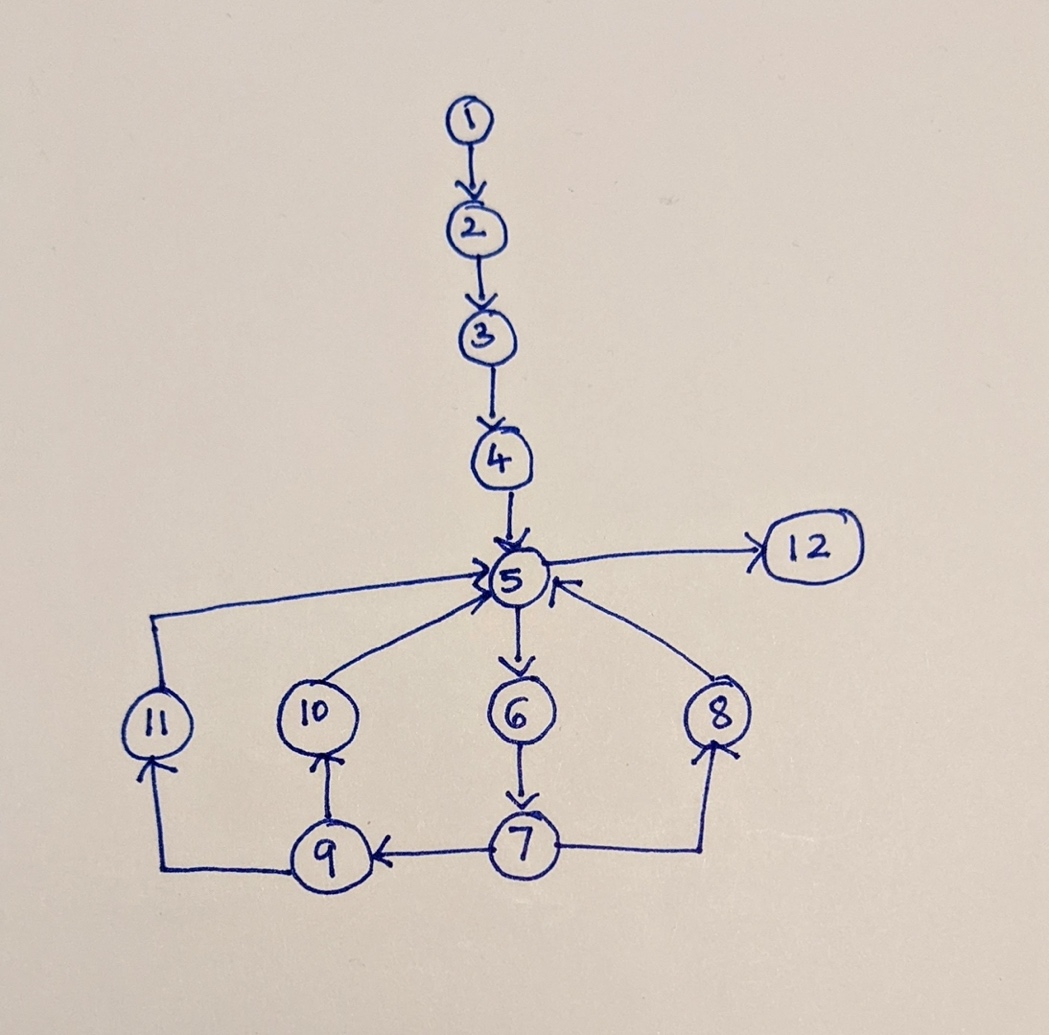
Question 3:

**Solution**

1. Array = { 1,2,3,4,5}, search value = 2
2. 1-2-3-4-5-6-7-9-10-5-6-7-9-11-5-6-7-8-5-12



1. e = 14, n = 12, p = 1

V(G) = e-n+p = 14 – 12 + 1 = 3

CV(G) = V(G) + 1 = 3 + 1 = 4

S = { 1-2-3-4-5-12, 5-6-7-8-5, 7-9-10-5, 9-11-5 }

Question 4:

**UNIT TEST**

|  |  |
| --- | --- |
| Section | Description |
| Test Scenario ID | TS1 |
| Test Scenario | Log In |
| Test Case ID | TC1 |
| Test Case | Verify Username |
| Pre-Condition | Login page is up and running |
| Instructions (Steps) | 1. User goes to the login page 2. User gives username = “Archana” 3. User gives password = “” 4. User clicks on the login button |
| Expected output | The system displays “ Please enter your password” |

|  |  |
| --- | --- |
| Section | Description |
| Test Scenario ID | TS1 |
| Test Scenario | Log In |
| Test Case ID | TC2 |
| Test Case | Verify Username |
| Pre-Condition | Login page is up and running |
| Instructions (Steps) | 1. User goes to the login page 2. User gives username = “” 3. User gives password = “123” 4. User clicks on the login button |
| Expected output | The system displays “ Please enter your username” |

|  |  |
| --- | --- |
| Section | Description |
| Test Scenario ID | TS1 |
| Test Scenario | Log In |
| Test Case ID | TC2 |
| Test Case | Verify Username |
| Pre-Condition | Login page is up and running |
| Instructions (Steps) | 1. User goes to the login page 2. User gives username = “Archana” 3. User gives password = “” 4. User clicks on the login button |
| Expected output | The system displays “ Please enter your password” |