

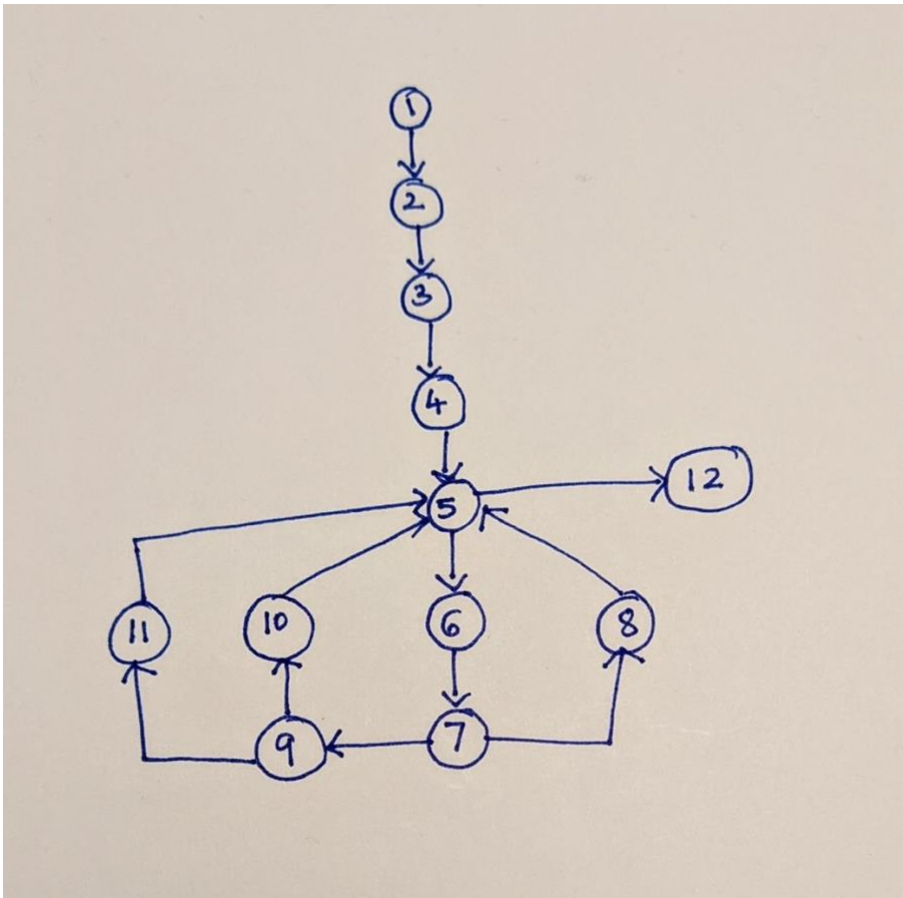
Question 3:

**Solution**

a. Array = { 1,2,3,4,5}, search value = 2

b. 1-2-3-4-5-6-7-9-10-5-6-7-9-11-5-6-7-8-5-12

c.



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

$$V(G) = e - n + p = 14 - 12 + 1 = 3$$

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

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

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)	<ol style="list-style-type: none"><li>1. User goes to the login page</li><li>2. User gives username = "Archana"</li><li>3. User gives password = ""</li><li>4. User clicks on the login button</li></ol>
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)	<ol style="list-style-type: none"><li>1. User goes to the login page</li><li>2. User gives username = ""</li><li>3. User gives password = "123"</li><li>4. User clicks on the login button</li></ol>
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)	<ol style="list-style-type: none"><li>1. User goes to the login page</li><li>2. User gives username = "Archana"</li><li>3. User gives password = ""</li><li>4. User clicks on the login button</li></ol>

Expected output	The system displays “ Please enter your password”
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