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| **PLEASE ANSWER ALL QUESTIONS.** | **Total 20 Marks** |

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| **Name:** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | **ID:** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| **QUESTION 1**  Write a C program that uses a linked list to store integers. Now write a function that searches for a value in the list and returns the index of . If does not exist in the list then the function will return -1.  **Input Description:**  The input set contains three lines of input.  The first line of input is an integer . The next line contains space separated integers denoting the elements of the list. The last line of input is the integer .  **Output Description:**  Output should be one line denoting the index of in the list. If is not present in the list, (without quotes) should be displayed.  **Sample Input:**  5  10 40 8 50 45  50  **Expected Output:**  3 | 10 marks |
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| **QUESTION 1**  Interview | 10 marks |
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| **\*\*END OF QUESTIONS\*\*** | |