**Notre Dame University Bangladesh**

Spring 2020 Trimester

Final Assessment Script

Student ID: 191120009 Dept.: CSE Section:

Course Code: **2205**  Course Title: Algorithm Analysis and Designing

Batch: CSE-10 Trimester & Date of submission:Summer,22 Sept,2020

..write below … write below …write below … write below … write below … write below … write below … write below … write below … write below ..

Ans To the question no:1

x=03.

y=1.

set 3:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | 32 | 4 | 53 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

Comparing 2 elements at index :

(0,1)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | 32 | 4 | 53 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(0,2)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | 32 | 12 | 53 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(0,3)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | 32 | 12 | 53 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(0,4)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | 32 | 12 | 53 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(0,5)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | 32 | 12 | 53 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(0,6)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | 32 | 12 | 53 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(0,7)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | 32 | 12 | 53 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(0,8)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | 32 | 12 | 53 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(0,9)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -12 | 32 | 12 | 53 | 6 | 12 | 13 | 4 | 65 | 4 | 111 | -333 | 123 |

(0,10)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -12 | 32 | 12 | 53 | 6 | 12 | 13 | 4 | 65 | 4 | 111 | -333 | 123 |

(0,11)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -333 | 32 | 12 | 53 | 6 | 12 | 13 | 4 | 65 | 4 | 111 | -12 | 123 |

(0,12)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -333 | 32 | 12 | 53 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -12 | 123 |

(1,2)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -333 | 32 | 12 | 53 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(1,3)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -333 | 32 | 12 | 53 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(1,4)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -333 | 32 | 12 | 53 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(1,5)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -333 | 32 | 12 | 53 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(1,6)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -333 | 32 | 12 | 53 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | 12 | 123 |

(1,7)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -333 | 32 | 12 | 53 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | 12 | 123 |

(1,8)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -333 | 32 | 12 | 53 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | 12 | 123 |

(1,9)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -333 | -12 | 12 | 53 | 6 | 12 | 13 | 4 | 65 | 32 | 111 | 12 | 123 |

(1,10)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -333 | -12 | 12 | 53 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | 12 | 123 |

(1,11)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -333 | -12 | 12 | 53 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | 12 | 123 |

(1,12)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
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| -333 | -12 | 12 | 53 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(2,3)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -333 | -12 | 12 | 53 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(2,4)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
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| -333 | -12 | 12 | 53 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(2,5)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -333 | -12 | 12 | 53 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(2,6)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
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| -333 | -12 | 12 | 53 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(2,7)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
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| -333 | -12 | 4 | 53 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(2,8)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
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| -333 | -12 | 4 | 53 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(2,9)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
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| -333 | -12 | 4 | 53 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(2,10)

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -333 | -12 | 4 | 53 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(2,11)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -333 | -12 | 4 | 53 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(2,12)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -333 | -12 | 4 | 53 | 6 | 12 | 13 | 32 | 65 | -12 | 111 | -333 | 123 |

(3,4)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -333 | -12 | 4 | 53 | 6 | 12 | 13 | 32 | 65 | -12 | 111 | -333 | 123 |

(3,5)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -333 | -12 | 4 | 4 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(3,6)

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| -333 | -12 | 4 | 4 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(3,7)

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| -333 | -12 | 4 | 4 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(3,8)

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| -333 | -12 | 4 | 4 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(3,9)

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| -333 | -12 | 4 | 4 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(3,10)

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| -333 | -12 | 4 | 4 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(3,11)

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| -333 | -12 | 4 | 4 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(3,12)

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| -333 | -12 | 4 | 4 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(4,5)

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| -333 | -12 | 4 | 4 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(4,6)

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -333 | -12 | 4 | 4 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(4,7)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -333 | -12 | 4 | 4 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(4,8)

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| -333 | -12 | 4 | 4 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(4,9)

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| -333 | -12 | 4 | 4 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(4,10)

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| -333 | -12 | 4 | 4 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(4,11)

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| -333 | -12 | 4 | 4 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(4,12)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -333 | -12 | 4 | 4 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(5,6)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -333 | -12 | 4 | 4 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(5,7)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
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| -333 | -12 | 4 | 4 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(5,8)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
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| -333 | -12 | 4 | 4 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(5,9)

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| -333 | -12 | 4 | 4 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(5,10)

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| -333 | -12 | 4 | 4 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | -333 | 123 |

(5,11)

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| -333 | -12 | 4 | 4 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | 53 | 123 |

(5,12)

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| -333 | -12 | 4 | 4 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | 53 | 123 |

(6,7)

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| -333 | -12 | 4 | 4 | 6 | 12 | 13 | 4 | 65 | -12 | 111 | 53 | 123 |

(6,8)

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| -333 | -12 | 4 | 4 | 6 | 12 | 12 | 13 | 65 | -12 | 111 | 53 | 123 |

(6,9)

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| -333 | -12 | 4 | 4 | 6 | 12 | 12 | 13 | 65 | -12 | 111 | 53 | 123 |

(6,10)

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| -333 | -12 | 4 | 4 | 6 | 12 | 12 | 13 | 65 | -12 | 111 | 53 | 123 |

(6,11)

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| -333 | -12 | 4 | 4 | 6 | 12 | 12 | 13 | 65 | -12 | 111 | 53 | 123 |

(6,12)

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| -333 | -12 | 4 | 4 | 6 | 12 | 12 | 13 | 65 | -12 | 111 | 53 | 123 |

(7,8)

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| -333 | -12 | 4 | 4 | 6 | 12 | 12 | 13 | 65 | -12 | 111 | 53 | 123 |

(7,9)

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| -333 | -12 | 4 | 4 | 6 | 12 | 12 | 13 | 65 | -12 | 111 | 53 | 123 |

(7,10)

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| -333 | -12 | 4 | 4 | 6 | 12 | 12 | 13 | 65 | -12 | 111 | 53 | 123 |

(7,11)

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -333 | -12 | 4 | 4 | 6 | 12 | 12 | 13 | 65 | -12 | 111 | 53 | 123 |

(7,12)

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -333 | -12 | 4 | 4 | 6 | 12 | 12 | 13 | 65 | -12 | 111 | 53 | 123 |

(8,9)

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -333 | -12 | 4 | 4 | 6 | 12 | 12 | 13 | 32 | -12 | 111 | 53 | 123 |

(8,10)

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| -333 | -12 | 4 | 4 | 6 | 12 | 12 | 13 | 32 | -12 | 111 | 53 | 123 |

(8,11)

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| -333 | -12 | 4 | 4 | 6 | 12 | 12 | 13 | 32 | -12 | 111 | 53 | 123 |

(8,12)

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -333 | -12 | 4 | 4 | 6 | 12 | 12 | 13 | 32 | 65 | 111 | 53 | 123 |

(9,10)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
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| -333 | -12 | 4 | 4 | 6 | 12 | 12 | 13 | 32 | 65 | 111 | 53 | 123 |

(9,11)

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| -333 | -12 | 4 | 4 | 6 | 12 | 12 | 13 | 32 | 53 | 111 | 65 | 123 |

(09,12)

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| -333 | -12 | 4 | 4 | 6 | 12 | 12 | 13 | 32 | 53 | 111 | 65 | 123 |

(10,11)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
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| -333 | -12 | 4 | 4 | 6 | 12 | 12 | 13 | 32 | 53 | 65 | 111 | 123 |

(10,12)

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| -333 | -12 | 4 | 4 | 6 | 12 | 12 | 13 | 53 | 53 | 65 | 111 | 123 |

(11,12)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -333 | -12 | 4 | 4 | 6 | 12 | 12 | 13 | 32 | 53 | 65 | 111 | 123 |

Ans To the ques no : 2

x = 3

DFS=

3,9,8,7,5,2,1,6,4

