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# Date; January 29, 2019

# Python State, Capital, flower and Bird List Application Test Case

# Python Math Set Application Test Case

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case | Input | Expected Output | Actual Output | Pass? |
| 1a | 1 | States in alphabetical order along with capital and flower | Figure 1. Test Case 1a Execution results | Yes |
| 1b | @#! | Please enter an integer between 1 and 6 to make your selection | Please enter an integer between 1 and 6 to make your selection | Yes |
| 1c | 2  Virginia | CAPITAL:Richmond BIRD:Cardinal | CAPITAL:Richmond BIRD:Cardinal | Yes |
| 1d | 2  south dakota | CAPITAL:Pierre BIRD:Ring-necked Pheasant | CAPITAL:Pierre BIRD:Ring-necked Pheasant | Yes |
| 1e | 2  NORTH CAROLINA | CAPITAL:Raleigh BIRD:Cardinal | CAPITAL:Raleigh BIRD:Cardinal | Yes |
| 1f | 2  Happy Day | Happy Day is not a state | Happy Day is not a state | Yes |
| 1g | 3  Texas  Nemo | The name has been changed now it reads BIRD:Nemo | The name has been changed now it reads BIRD:Nemo | Yes |
| 1h | 3  2389 | 2389 is not a state | 2389 is not a state | Yes |
| 1i | 4 | Exit program | Exit program | Yes |

Figure 1. Test Case 1a Execution results

A screenshot of a cell phone

Description automatically generated

A screenshot of a cell phone

Description automatically generated

A screenshot of text

Description automatically generated

Figure 2. Test Case 1b Execution results

A screenshot of a cell phone

Description automatically generated

Figure 3. Test Case 1c Execution results

A screenshot of a cell phone

Description automatically generated

Figure 4. Test Case 1d Execution results

A screenshot of a cell phone

Description automatically generated

Figure 5. Test Case 1e Execution results

A picture containing screenshot

Description automatically generated

Figure 6. Test Case 1f Execution results

A screenshot of a cell phone

Description automatically generated

Figure 7. Test Case 1g Execution results

A screenshot of a cell phone

Description automatically generated

Figure 8. Test Case 1h Execution results

A screenshot of a cell phone

Description automatically generated

Figure 9. Test Case 1i Execution results

A screenshot of a cell phone

Description automatically generated

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case | Input | Expected Output | Actual Output | Pass? |
| 2a | 1 | Square and Cube for Integers ranging from 1 to 100 | Square and Cube for Integers ranging from 1 to 100 | Yes |
| 2b | $(@#two | Please enter an integer between 1 and 6 to make your selection | Please enter an integer between 1 and 6 to make your selection | Yes |
| 2c | 2  79 | 79 is not in either set | 79 is not in either set | Yes |
| 2d | 2  81 | 81 is found in the set  The square of 81 is 6561  The cube of 81 is 531441 | 81 is found in the set  The square of 81 is 6561  The cube of 81 is 531441 | Yes |
| 2e | 3 | The union of the sets | The union of the sets | Yes |
| 2f | 4 | The intersection of the sets | The intersection of the sets | Yes |
| 2g | 5 | The difference of the sets | The difference of the sets | Yes |
| 2h | 6 | Exit program | Exit program | Yes |

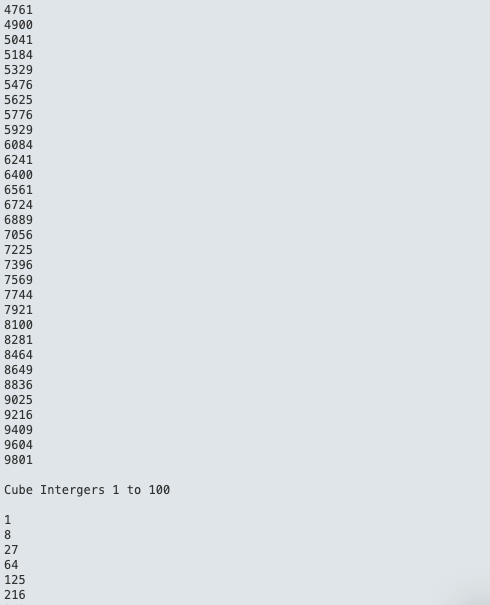
Figure 10. Test Case 2a Execution results

A screenshot of a cell phone

Description automatically generated

A close up of a logo

Description automatically generated



A close up of a logo

Description automatically generated

A close up of a logo

Description automatically generated

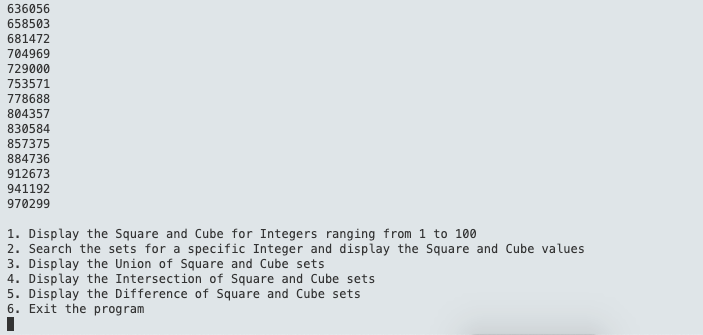


Figure 11. Test Case 2b Execution results

A screenshot of a cell phone

Description automatically generated

Figure 12. Test Case 2c Execution results

A screenshot of text

Description automatically generated

Figure 13. Test Case 2d Execution results

A screenshot of text

Description automatically generated

Figure 14. Test Case 2e Execution results

A screenshot of a cell phone

Description automatically generated

Figure 15. Test Case 2f Execution results

A screenshot of a cell phone

Description automatically generated

Figure 16. Test Case 2g Execution results

A screenshot of a cell phone

Description automatically generated

Figure 17. Test Case 2h Execution results

A screenshot of a cell phone

Description automatically generated