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CIS 3501

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57 is more than the amount of anagrams

**Big O**

1. void buildVector O(n)
2. void sortingVectors O(n2)
3. void anagramSeparation O(n2)
4. void emptyingVectors

|  |  |  |  |
| --- | --- | --- | --- |
| Test Case | List of Words | Expected Output | Actual Output |
| 1 | 16 5  undisplayed  trace  tea  singleton  eta  eat  displayed  crate  cater  carte  caret  beta  beat  bate  ate  abet | Class of size 5: caret carte cater crate trace  Class of size 4: abet bate beat beta  Class of size 4: ate eat eta tea  Class of size 1: displayed  Class of size 1: singleton | Class of size 5: caret carte cater crate trace  Class of size 4: abet bate beat beta  Class of size 4: ate eat eta tea  Class of size 1: displayed  Class of size 1: singleton |
| 2 | 24 57  undisplayed  tea  singleton  eta  eat  displayed  crate  cater  carte  caret  beta  beat  veil  bate  ate  abet  solver  lovers  pat  tap  vile  live  evil  trace | Class of size 5: caret carte cater crate trace  Class of size 4: abet bate beat beta  Class of size 4: ate eat eta tea  Class of size 4: evil live veil vile  Class of size 2: lovers solver  Class of size 2: pat tap  Class of size 1: displayed  Class of size 1: singleton  Class of size 1: undisplayed | Class of size 5: caret carte cater crate trace  Class of size 4: abet bate beat beta  Class of size 4: ate eat eta tea  Class of size 4: evil live veil vile  Class of size 2: lovers solver  Class of size 2: pat tap  Class of size 1: displayed  Class of size 1: singleton  Class of size 1: undisplayed |
| 3 | 35 57  undisplayed  tea  singleton  eta  eat  care  displayed  crate  debitcard  cater  restful  acre  carte  bonus  caret  beta  badcredit  newyorktimes  beat  veil  bate  monkeyswrite  ate  fluster  abet  solver  lovers  pat  tap  vile  race  live  bosun  evil  trace | Class of size 5: caret carte cater crate trace  Class of size 4: abet bate beat beta  Class of size 4: ate eat eta tea  Class of size 4: evil live veil vile  Class of size 3: acre care race  Class of size 2: badcredit debitcard  Class of size 2: bonus bosun  Class of size 2: fluster restful  Class of size 2: lovers solver  Class of size 2: monkeyswrite newyorktimes  Class of size 2: pat tap  Class of size 1: displayed  Class of size 1: singleton  Class of size 1: undisplayed | Class of size 5: caret carte cater crate trace  Class of size 4: abet bate beat beta  Class of size 4: ate eat eta tea  Class of size 4: evil live veil vile  Class of size 3: acre care race  Class of size 2: badcredit debitcard  Class of size 2: bonus bosun  Class of size 2: fluster restful  Class of size 2: lovers solver  Class of size 2: monkeyswrite newyorktimes  Class of size 2: pat tap  Class of size 1: displayed  Class of size 1: singleton  Class of size 1: undisplayed |
| 4 | 24 5  undisplayed  tea  singleton  eta  eat  displayed  crate  cater  carte  caret  beta  beat  veil  bate  ate  abet  solver  lovers  pat  tap  vile  live  evil  trace | Class of size 5: caret carte cater crate trace  Class of size 4: abet bate beat beta  Class of size 4: ate eat eta tea  Class of size 4: evil live veil vile  Class of size 2: lovers solver | Class of size 5: caret carte cater crate trace  Class of size 4: abet bate beat beta  Class of size 4: ate eat eta tea  Class of size 4: evil live veil vile  Class of size 2: lovers solver |