**Question :**

Insert the keys E A S Y Q U T I O N in that order into an initially empty table of M = 5 lists, using separate chaining. Use the hash function 11 k % M to transform the kth letter of the alphabet into a table index.

**Solution :**

|  |  |  |
| --- | --- | --- |
|  | Kth letter | 11 k % M |
| E | 5 | 0 |
| A | 1 | 1 |
| S | 19 | 4 |
| Y | 25 | 0 |
| Q | 17 | 2 |
| U | 21 | 1 |
| T | 20 | 0 |
| I | 9 | 4 |
| O | 15 | 0 |
| N | 14 | 4 |

**Array:**

|  |  |  |
| --- | --- | --- |
| Index |  |  |
| 0 | -- | O, T, Y, E |
| 1 | -- | U, A |
| 2 | -- | Q |
| 3 | -- |  |
| 4 | -- | N, I, S |