Cau 2:

* h(12) = (2 \* 12 + 5) mod 11 = 29 mod 11 = 7
* h(44) = (2 \* 44 + 5) mod 11 = 93 mod 11 = 5
* h(13) = (2 \* 13 + 5) mod 11 = 31 mod 11 = 9
* h(88) = (2 \* 88 + 5) mod 11 = 181 mod 11 = 5
* h(23) = (2 \* 23 + 5) mod 11 = 51 mod 11 = 7
* h(94) = (2 \* 94 + 5) mod 11 = 193 mod 11 = 6
* h(11) = (2 \* 11 + 5) mod 11 = 27 mod 11 = 5
* h(39) = (2 \* 39 + 5) mod 11 = 83 mod 11 = 6
* h(20) = (2 \* 20 + 5) mod 11 = 45 mod 11 = 1
* h(16) = (2 \* 16 + 5) mod 11 = 37 mod 11 = 4
* h(5) = (2 \* 5 + 5) mod 11 = 15 mod 11 = 4

a. Separate chaining:

|  |  |
| --- | --- |
| 0. | empty |
| 1. | 20 |
| 2. | empty |
| 3. | empty |
| 4. | 16 -> 5 |
| 5. | 44 -> 88 -> 11 |
| 6. | 94 -> 39 |
| 7. | 12 -> 23 |
| 8. | empty |
| 9. | 13 |
| 10. | empty |

b.Linear probing

|  |  |
| --- | --- |
| 0. | 11 |
| 1. | 39 |
| 2. | 20 |
| 3. | 5 |
| 4. | 16 |
| 5. | 44 |
| 6. | 88 |
| 7. | 12 |
| 8. | 23 |
| 9. | 13 |
| 10. | 94 |