به نام خدا

5-

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|  |  |  |  |  |  |  |  |  | 3 |

3 🡪 h(3) = h1(3) = 2\*3 + 3 mod 10 = 9

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  | 2 |  | 3 |

2 🡪 h(2) = h1(2) = 4 + 3 = 7

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|  |  |  |  |  | 6 |  | 2 |  | 3 |

6 🡪 h(6) = h1(6) = 12 + 3 mod 10 = 5

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 9 |  |  |  | 6 |  | 2 |  | 3 |

9 🡪 h(9) = h1(9) = 18 + 3 mod 10 = 1

11 🡪 h(11) = h1(11) = 22 + 3 mod 10 = 5 🡪 A[5] is full

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 9 |  | 11 |  | 6 |  | 2 |  | 3 |

h2(11) = 3\*11 + 1 mod 10 = 4 🡪 h(11) = h(11) + h2(11) = (h1(11) + h2(11)) mod 10 = 9 🡪 A[9] is full 🡪 h(11) = h(11) + h2(11) mod 10 = 3 🡪 A[3] is empty

13 🡪 h(13) = h1(13) = 26 + 3 mod 10 = 9 🡪 A[9] is full

h2(13) = 3\*13 + 1 mod 10 = 0 🡪 offset is zero 🡪 not acceptable! 🡪 no place for

7 🡪 h(7) = h1(7) = 14 + 3 mod 10 = 7 🡪 A[7] is full

h2(7) = 3\*7 + 1 mod 10 = 2 🡪 h(7) = (h(7) + h2(7)) mod 10 = 9 🡪 A[9] is full

h(7) = h(7) + h­2(7) mod 10 = 1 🡪 A[1] is full 🡪 h(7) = h(7) + h2(7) = 1 + 2 = 3 🡪

A[3] is full 🡪 h(7) = (7) + h2(7) = 5 🡪 A[5] is full 🡪 h(7) = h(7) + h2(7) = 5 + 2 = 7 🡪 A[7] is full 🡪 stuck in the loop ! no place for 7

12 🡪 h(12) = h1(12) = 24 + 3 mod 10 = 7 🡪 A[7] is full

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 9 |  | 11 |  | 6 |  | 2 | 12 | 3 |

h2(12) = 3\*12 + 1 mod 10 = 7 🡪 h(12) = h(12) + h2(12) = (h­1(12) + h2(12)) mod 10 = 4 🡪 A[4] is full 🡪 h(12) = h(12) + h2(12) mod 10 = 1 🡪 A[1] is full 🡪 h(12) = h(12) + h2(12) mod 10 = 8 🡪 A[8] is empty