

Problem 11.2

$\Rightarrow 11.2$

(a)

Homework 10

$$\Rightarrow 0, 3, 10, 2, 4, 7$$

using double hashing available indices

$$m=5$$

|   |   |   |   |   |
|---|---|---|---|---|
| 0 | 1 | 2 | 3 | 4 |
| 0 | 0 | 0 | 0 | 0 |

doing 3:

$$\Rightarrow 3 \bmod 5 = 3 \text{ using } h$$

|   |   |   |   |   |
|---|---|---|---|---|
| 0 | 1 | 2 | 3 | 4 |
| 0 | 0 | 0 | 3 | 0 |

doing 10:

$$10 \bmod 5 = 0$$

|    |   |   |   |   |
|----|---|---|---|---|
| 0  | 1 | 2 | 3 | 4 |
| 10 | 0 | 0 | 3 | 0 |

doing 2:

$$2 \bmod 5 = 2$$

|    |   |   |   |   |
|----|---|---|---|---|
| 0  | 1 | 2 | 3 | 4 |
| 10 | 0 | 0 | 2 | 3 |

Adding 4.  $4 \bmod 5 = 4$

|    |   |   |   |   |
|----|---|---|---|---|
| 0  | 1 | 2 | 3 | 4 |
| 10 | 0 | 8 | 3 | 4 |

b. problem 11 hashtable Cpp.

11.2

a) consider the activity

|        |        |         |
|--------|--------|---------|
| ①      | ②      | ③       |
| [2, 6] | [4, 7] | [6, 12] |

$\Rightarrow$  using the greedy algorithm, we would choose the activity with the shortest time which is (2) as others are not compatible whereas not using the shortest time the optimal solution would have been (1) and (3).

b. lastest greedy Cpp.