Homework 10

a) <3, 10, 2, 4>

Using double hashing ~~it~~ are available indexes.

0	1	2	3	4
0	0	0	0	0

~~it~~

Adding 3,

So, 3 MOD 5 = 3. using h_1

0	1	2	3	4
0	0	0	3	0

Adding 10

So,

10 MOD 5 = 0.

0	1	2	3	4
10	0	0	3	0

Adding 2

So,

2 MOD 5 = 2

0	1	2	3	4
10	0	2	3	0

Adding 4.

4 MOD 5 = 4.

∴ Final position will be.

0	1	2	3	4
10	0	2	3	4

b) Inside file "Hashtable.cpp".

Problem 10.2

a) Consider the activity.

① ② ③

[[1, 5], [4, 6], [5, a]]

~~If~~ ~~Or~~ If we had used the greedy algorithm of choosing activity with shortest duration we would just choose activity 2 as others would not be possible.

But using the earliest finish date we could have got activitibity ① and ③ which is globally optimum.