Aleshay S Bharadu 1 BM 18 C5011

ADS Lab-8 Writeup (Dictionary hashing) const int MAX = 200; class Hashtable ?

public: int key; int value; Hashtate (int key, int value) { this > key = key; this -> value = value;

3; class Dictionary &

> Dictionary **+; public:

private:

Didionary () { += new Hashtable *[MAX]; for (inti= 0; i < MAX; i+t) +[i] = NULL; 3

~ Dictionary () { for Ciut i=0; i< MAX; i++) if (+[i] != NOLL) delete + [i]; detete [] +;

I to int Hashfunc (int key); void insertion (int key &) int value); search (int key);

void deletion (int key); 3;

Alishay 2 Bharadway 1BM18C5011 int Dictionary: hashfauc (int key) f retain key 1. MAX; void Dictionary : insertion (int key, int value) { int n = hashtanc(key); h: hashfunc (h+1); (+[h] ! = NOLL) delete +[h]; +[h] = new Hashnode (key, value); int Dictionary :: search (int key) { int n = Hashfunc (key); while (+ [N] ! = NULL && + [N] -> key! = key) } h = hashfunc (h+1); (+[N] == NULL)

while (+[h]! = NOLL 88 +[h] -> key ! = key) {

return -1; e/se return +[N] -> value; void Dictionary: ! deletion (int key) }

3

while (+[h] 1= NOLL) & if (t[N] -> red == red) break;

int h = hashfunc (key);

n = nashfunc (n+1);

= (+[N] == NULL) } couter "No element at key with key it end; refus 4 5 else & delete + [h]; }

2

cout << "Flement has been deleted \u";