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ADS

Implementing Dictionary using Hashing

Pseudo code:

```
typedef struct list
{ ...
};
class Dictionary
{   function calls ();
};
void Dictionary :: search (int key)
{       index = int (key % max) ; int flag=0;
        temp [index ] = root [index ];
        while ( temp [index ]!= NULL)
        {       if (temp [index ] -> data == key )
                {       flag =1;
                        break;
                } else temp [index ] = temp [index ] -> next;
        }
        if (flag == 0) cout<<"not found";
}
void Dictionary :: insert (int key)
{       index =(int) key % 10;
        ptr [index ]= (node) malloc (sizeof(node));
        ptr [index ]->data =key;
        if(root [index ] == NULL)
        {
```

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```
        root[index] = ptr[index];
        root[index]->next = NULL;
        temp[index] = ptr;
    }
    else
    {
        temp[index] = root[index];
        while (temp[index]->next != NULL)
            temp[index] = temp[index]->next;
        temp[index]->next = ptr[index];
    }
}

void Dictionary :: Delete (int key)
{
    index = (int) key % max;
    temp[index] = root[index];
    while (temp[index]->data != key && temp[index] != NULL)
    {
        ptr[index] = temp[index]
        temp[index] = temp[index]->next;
    }
    ptr[index]->next = temp[index]->next;
    temp[index]->data = -1;
    temp[index] = NULL;
    free (temp[index]);
}
```

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