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Write up

⊛ Implementing Dictionary Data Structure using Hashing

// Insert function

```
void insert (int key)
```

```
{
```

```
    index = int (key % max);
```

```
    ptr [index] = (node-type) malloc (size of (node-type));
```

```
    ptr [index] → data = key;
```

```
    if (root [index] == NULL)
```

```
        do
```

```
            root [index] = ptr [index];
```

```
            root [index] → next = NULL;
```

```
            temp [index] = ptr [index];
```

```
    else
```

```
        do
```

```
            temp [index] = root [index];
```

```
            while (temp [index] → next != NULL)
```

```
                temp [index] = temp [index] → next;
```

```
            temp [index] → next = ptr [index];
```

```
}
```

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Write-up

Continued....

```
void search (int Key)
{
    int flag = 0;
    index = int (Key % max);
    temp[index] = root[index];
    while (temp[index] != NULL)
    do
        if (temp[index] → data == Key)
        then
            print ("In Search Key Found!!!");
            flag = 1;
            break;
        else
        do
            temp[index] = temp[index] → next;
    done
    if (flag == 0)
    then
        print ("In Search Key not Found!!!");
}
```