

```
#include <stdio.h>
#define MAX 100

int hashTable[MAX];
int m;

void init() {
    int i;
    for (i = 0; i < m; i++)
        hashTable[i] = -1;
}

void insert(int key) {
    int index = key % m;
    int startIndex = index;

    while (hashTable[index] != -1) {
        index = (index + 1) % m;
        if (index == startIndex) {
            printf("Hash table is full\n");
            return;
        }
    }
    hashTable[index] = key;
}

void display() {
    int i;
    printf("\nHash Table:\n");
    printf("Address\tKey\n");
    for (i = 0; i < m; i++) {
        if (hashTable[i] != -1)
            printf("%d\t%d\n", i, hashTable[i]);
        else
            printf("%d\t---\n", i);
    }
}

int main() {
    int n, key, i;
```

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Project Projectfile

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```
Enter size of hash table (m): 10
Enter number of employee records: 6
Enter 4-digit employee keys:
1001
1011
1021
1031
1041
1051
```

```
Hash Table:
Address Key
0
1 1001
2 1011
3 1021
4 1031
5 1041
6 1051
7 ...
8 ...
9 ...
```

```
Process returned 0 (0x0) execution time : 22.516 s
Press any key to continue.
```

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```
        }
        hashTable[index] = key;
    }

void display() {
    int i;
    printf("\nHash Table:\n");
    printf("Address\tKey\n");
    for (i = 0; i < m; i++) {
        if (hashTable[i] == -1)
            printf("%d\t%d\n", i, hashTable[i]);
        else
            printf("%d\t--\n", i);
    }
}

int main() {
    int n, key, i;
    printf("Enter size of hash table (m): ");
    scanf("%d", &m);

    init();

    printf("Enter number of employee records: ");
    scanf("%d", &n);

    printf("Enter 4-digit employee keys:\n");
    for (i = 0; i < n; i++) {
        scanf("%d", &key);
        insert(key);
    }

    display();

    return 0;
}
```

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