





Write a C program for Hashing Table?

Programiz C Online Compiler

main.c

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```
1 #include <stdio.h>
2 #define TABLE_SIZE 10
3 int main() {
4     int table[TABLE_SIZE] = {0}, status[TABLE_SIZE] = {0}, keys[] = {89, 18, 49, 58,
5         69}, i, j, index;
6     for (int k = 0; k < sizeof(keys)/sizeof(keys[0]); k++) {
7         for (i = 0; i < TABLE_SIZE; i++) {
8             index = (keys[k] + i*i) % TABLE_SIZE;
9             if (!status[index]) { table[index] = keys[k]; status[index] = 1; break;
10         }
11     }
12     for (i = 0; i < TABLE_SIZE; i++) printf("Index %d: %d\n", i, status[i] ?
13         table[i] : -1);
14     return 0;
15 }
```

/tmp/ZvADqJ0guT.o
Index 0: 49
Index 1: -1
Index 2: 58
Index 3: 69
Index 4: -1
Index 5: -1
Index 6: -1
Index 7: -1
Index 8: 18
Index 9: 89

=== Code Execution Successful ===