

SPOJ #29 - HASHIT

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Due Wednesday by 6pm **Points** 100 **Submitting** a file upload

Submit the source code for your solution to SPOJ #29 - HASHIT.

<http://www.spoj.com/problems/HASHIT/> (<http://www.spoj.com/problems/HASHIT/>)

- Source code must be in a file called **hashit.c**
- Source code must be commented (In a real contest we don't have time to comment, but we want to learn techniques in this course that we revisit and reuse.)
- Use the C makefile I have provided in Canvas.

You must work in teams of **3**. Be sure to include each person's name at the top of the file with the pledge and in the comments section on Canvas. Only one submission per team is necessary. In fact, submit only once!

Requirements:

You include the following definitions and function headers in your source code. This hopefully ensures you have a data structure that is somewhat reusable in other C projects.

```
#define TABLE_SIZE 101

typedef struct {
    char* keys[TABLE_SIZE];
    int num_keys;
} hash_set;

void clear_table(hash_set *set)

int hash(char *key)

int insert_key(hash_set *set, char *key)

int delete_key(hash_set *set, char *key)

void display_keys(hash_set *set)
```

Make sure you have no memory leaks, even if the SPOJ judge accepts the answer!

If you upload multiple times, the file name will change with -1, -2, etc. suffixes, and there's nothing you can do about it on your end.