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/*
 * This code is from "Algorithms in C, Third Edition,"
 * by Robert Sedgewick, Addison Wesley Longman, 1998.
 * (with small alterations...)
 */
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include "Item.h"
#include "ST.h"

int main(int argc, char *argv[])
{
    int N;
    Key v;
    Item item;
    STinit();
    for (N = 0; ; N++)
      {
        if (ITEMscan(&v) == EOF) break;
        if (STsearch(v) != NULLitem) continue;
        key(item) = v;
        STinsert(item);
      }

    printf("Statistics: %d keys\n", N);
    printf("Statistics: %d distinct keys\n", STcount());
    STdump(ITEMshow);
    printf("Number of items per table entry:\n");
    STshow_histogram();

    return 0;
}
```