```
#define _XOPEN_SOURCE
#include <unistd.h>
#include <stdio.h>
#include <string.h>
#include <cs50.h>
int main(int argc, string argv[])
    if (argc != 2)
    {
        printf("Usage: crack <hash>\n");
        return 1;
    const int letters count = 53;
    string letters =
"\OabcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ";
    string hash = argv[1];
    char salt[3];
    memcpy(salt, hash, 2);
    salt[2] = ' \ 0';
    char key candidate[6] = "\0\0\0\0\0\0;
    for (int fifth = 0; fifth < letters count; fifth++)</pre>
    for (int fourth = 0; fourth < letters count; fourth++)</pre>
    for (int third = 0; third < letters count; third++)</pre>
    for (int second = 0; second < letters count; second++)</pre>
    for (int first = 1; first < letters count; first++)</pre>
         key candidate[0] = letters[first];
         key_candidate[1] = letters[second];
         key candidate[2] = letters[third];
         key candidate[3] = letters[fourth];
         key candidate[4] = letters[fifth];
      if (strcmp(crypt(key candidate, salt), hash) == 0)
          printf("%s\n", key candidate);
                             return 0;
     }
     }
     }
     }
     }
          printf("Password couldn't be cracked!");
          return 2;
}
```