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1  /// Final Lab 2557-1: Hangman
2
3  #include <stdio.h>
4
5  void display(int* R, int* G, int N) {
6      for(int i = 0; i < 12; ++i) {
7          if(R[i] >= 0)
8              printf("%d ", R[i]);
9          else
10             printf("_ ");
11     }
12     for(int i = 0; i < N; ++i)
13         printf("%d ", G[i]);
14     printf("\n");
15 }
16
17 int main() {
18     int A[12]; // Input array
19     int R[12]; // Result array
20     int G[5];  // Incorrect guess array
21     int N = 0; // The number of incorrect guess (used with G)
22     int score = 0;
23
24     for(int i = 0; i < 12; ++i) {
25         scanf("%d", &A[i]);
26         R[i] = -1;
27     }
28     display(R, G, N);
29
30     int x;
31     for(int i = 0; i < 5; ++i) {
32         scanf("%d", &x);
33         int found = 0;
34         for(int k = 0; k < 12; ++k) {
35             if(A[k] == x) { // Correct guess
36                 R[k] = x;
37                 found = 1;
38                 ++score;
39             }
40         }
41         if(found == 0) { // Incorrect guess
42             G[N] = x;
43             ++N;
44         }
45         display(R, G, N);
46     }
47     printf("%d", score);
48
49     return 0;
50 }

```