

Online C Compiler - Programiz

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deepapreya-h/CNS

programiz.com/c-programming/online-compiler/

Learn DSA the way it should be – with step-by-step code visualization. Try now!

Programiz

C Online Compiler

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main.c

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Run

```
1 #include <stdio.h>
2 #include <math.h>
3 int main() {
4     double total_keys = 1;
5     for (int i = 1; i <= 25; i++) {
6         total_keys *= i;
7     }
8     double log2_total_keys = log2(total_keys);
9     printf("Total possible keys (25!): %.0f\n", total_keys);
10    printf("Approximate as 2^%.0f\n", log2_total_keys);
11    printf("Effectively unique keys (approximate): 2^61\n");
12    return 0;
13 }
14
```

Output

Clear

Total possible keys (25!): 15511210043330986055303168
Approximate as 2^84
Effectively unique keys (approximate): 2^61

=== Code Execution Successful ===