

```

1 //
2 // 6 0000000000000000?
3 //
4 // Created by hengxin on 10/10/21.
5 //
6
7 #include <stdio.h>
8
9 int main() {
10     const double MOL = 6.02e23;
11     const int MOL_PER_GRAM = 32;
12     int mass = 6;
13
14     double quantity = (mass * 1.0) / MOL_PER_GRAM
15         * MOL;
16     /**
17      * Basic output
18      * quantity = 1128750000000000003407872.000000
19      */
20     printf("quantity = %f\n", quantity);
21
22     /**
23      * Basic output
24      * quantity = 1.128750e+23
25      * quantity = 1.12875e+23
26      */
27     printf("quantity = %e\nquantity = %g\n",
28         quantity, quantity);
29
30     /**
31      * Expected output
32      * quantity = 1.129e+23
33      * quantity = 1.1288e+23
34      */
35     printf("quantity = %.3e\nquantity = %.5g\n",
36         quantity, quantity);

```

```
36     return 0;  
37 }
```