Integer to Roman (/problems/integer-to-roman/)

Submission Detail

3999 / 3999 test cases passed.

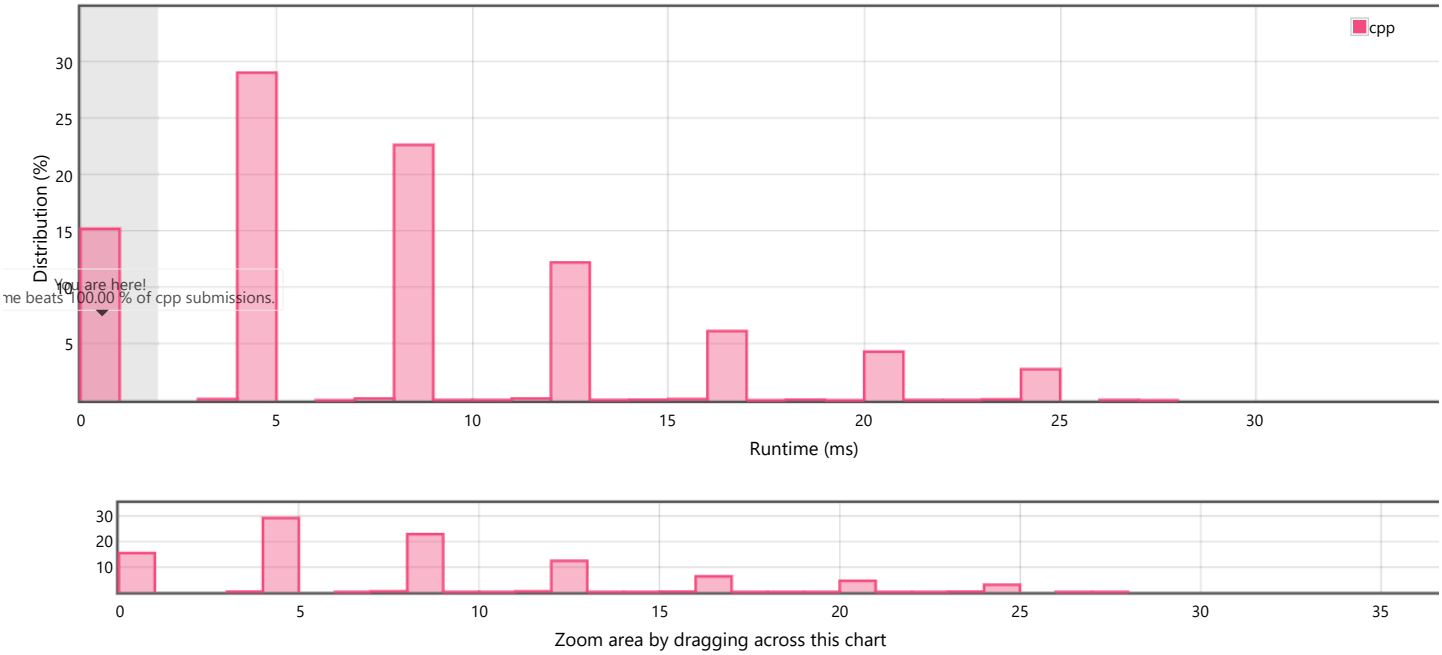
Status: **Accepted**

Runtime: **0 ms**

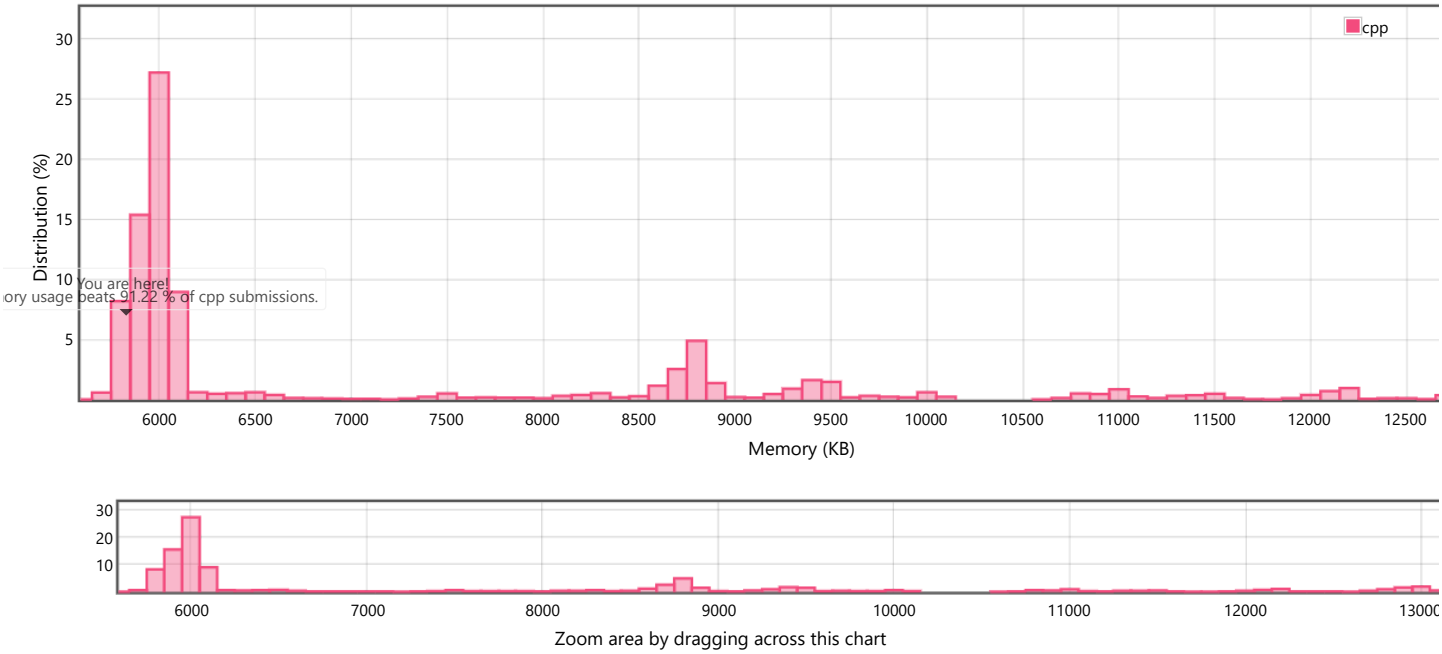
Memory Usage: **5.8 MB**

Submitted: **0 minutes ago**

Accepted Solutions Runtime Distribution



Accepted Solutions Memory Distribution



Invite friends to challenge **Integer to Roman**

19

Submitted Code: 0 minutes ago

Language: cpp

Edit Code

```
1  class Solution {
2  public:
```

```
3       string intToRoman(int num)
4       {
5           char sym[7] = {'I','V','X','L','C','D','M'};
6           int div = 1000;
7           int index = (sizeof(sym)/sizeof(char)) - 1;
8           string ans;
9
10          while(num!=0 && div!=0 && index>=0)
11          {
12              int quo = num/div;
13              num = num % div;
14
15              if(quo>=5)
16              {
17                  //out of range
18                  if((index+1) >= (sizeof(sym)/sizeof(char)))
19                      return ans;
20
21                  // >5
22                  index++;
23
24                  if(quo == 9)
25                  {
26                      //out of range
27                      if((index+1) >= (sizeof(sym)/sizeof(char)))
28                          return ans;
29
30                      // 10 - 1 : IX
31                      ans = ans + sym[index-1] + sym[index+1];
32                  }
33                  else
34                  {
35                      // 5
36                      ans = ans + sym[index];
37
38                      // 1~3
39                      for(int i = 0; i < (quo%5); i++)
40                          ans = ans + sym[index-1];
41                  }
42
43                  index--;
44              }
45              else if(quo > 0)
46              {
47                  if(quo == 4)
48                  {
49                      //out of range
50                      if((index+1) >= (sizeof(sym)/sizeof(char)))
51                          return ans;
52
53                      // 5 - 1: IV
54                      ans = ans + sym[index] + sym[index+1];
55                  }
56                  else
57                  {
58                      // 1~3
59                      for(int i = 0; i < (quo%5); i++)
60                          ans = ans + sym[index];
61                  }
62              }
63
64
65              div = div / 10;
66              index = index - 2;
67          }
68
69          return ans;
70      }
71  };
```

Back to problem (/problems/integer-to-roman/)