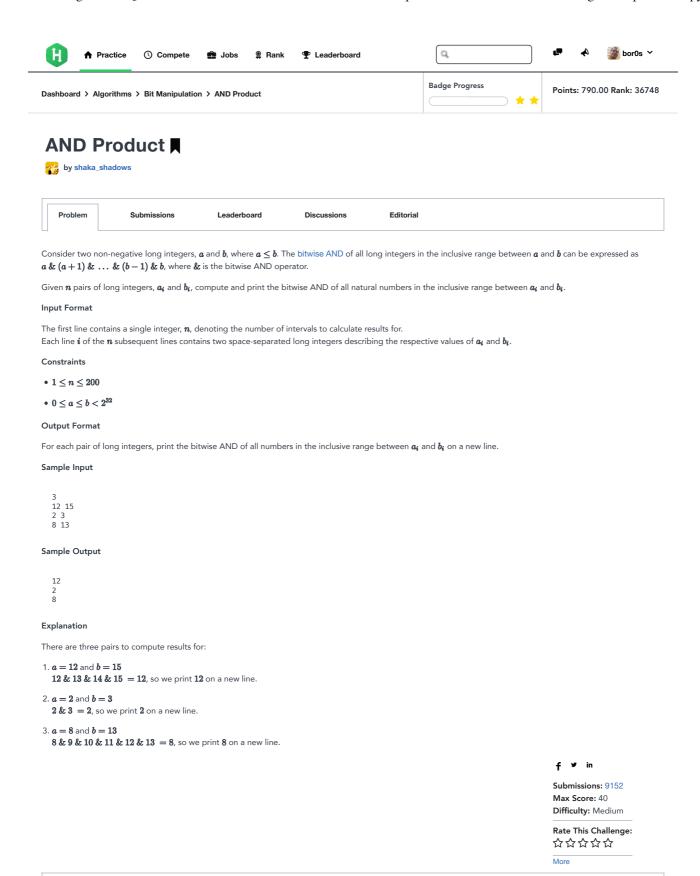
Current Buffer (saved locally, editable) & 🔊



1 of 2 4/25/17, 11:33 AM

```
1 ▼#include <cmath>
 2 #include <cstdio>
   #include <vector>
    #include <iostream>
   #include <algorithm>
   #include <climits>
    using namespace std;
 9 \nequnsigned long int calculate(unsigned long int a, unsigned long b) {
10
         unsigned long int cnt = 0, i = INT_MAX + 1L;
11
         // 0011 (3) - 0100 (4) -> 0xxx (?)
// 1000 (8) - 1011 (11) -> 10xx (?)
12
14
         // for the bits we go from left to right while they match
         // and then print them, padded with zeroes
while ( (a & i) == (b & i) ) {
   i >>= 1;
15
16
17
             cnt++;
19
20
         cnt = 32 - cnt;
21
22
         return (a >> cnt) << cnt;
24 }
25
26 ▼int main() {
         /* Enter your code here. Read input from STDIN. Print output to STDOUT */
27
28
         unsigned long int n, a, b;
29
30
31 ▼
         while (n) {
32
             cin >> a >> b;
33
34
             cout << calculate(a, b) << "\n";</pre>
35
36
         }
37
38
         return 0;
39
    }
40
                                                                                                                                    Line: 1 Col: 1
1 Upload Code as File
                       Test against custom input
                                                                                                                         Run Code
                                                                                                                                      Submit Code
                                                           Copyright © 2017 HackerRank. All Rights Rese
```

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2 of 2 4/25/17, 11:33 AM