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# Missing Term (G21)      🔒 locked

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## Submitted Code

Language: C++      ⌥ Open in editor

```
1  // Sample Input 1
2
3  // 3
```

```cpp
  4 // 5
  5 // 125
  6 // 625
  7 // Sample Output 1
  8
  9 // 25
 10
 11
 12
 13
 14
 15
 16
 17
 18 #include <bits/stdc++.h>
 19 using namespace std;
 20
 21
 22 int findMissingRec(int arr[], int low,
 23                    int high, int ratio)
 24 {
 25     if (low >= high)
 26         return INT_MAX;
 27     int mid = low + (high - low)/2;
 28
 29
 30     if (arr[mid+1]/arr[mid] != ratio)
 31         return (arr[mid] * ratio);
 32
 33
 34     if ((mid > 0) && (arr[mid]/arr[mid-1]) != ratio)
 35         return (arr[mid-1] * ratio);
 36
 37
 38     if (arr[mid] == arr[0] * (pow(ratio, mid)) )
```

```
39            return findMissingRec(arr, mid+1, high, ratio);
40
41        return findMissingRec(arr, low, mid-1, ratio);
42 }
43
44
45 int findMissing(int arr[], int n)
46 {
47
48        int ratio = (float) pow(arr[n-1]/arr[0], 1.0/n);
49
50        return findMissingRec(arr, 0, n-1, ratio);
51 }
52
53 // Driver code
54 int main(void)
55 {
56        int n;
57        cin>>n;
58        int arr[n] ;
59        // int n = sizeof(arr)/sizeof(arr[0]);
60        for(int i=0;i<n;i++)
61            cin>>arr[i];
62        cout << findMissing(arr, n);
63        return 0;
64 }
```

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