Elite-S016-Algorithms

Solved Challenges 1/2



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HCF of N Integers

ID:11089 Solved By 720 Users

The program must accept **N** integers as the input. The program must print the HCF of the N integers as the output.

Boundary Condition(s):

2 <= N <= 100

1 <= Each integer value <= 10^18

Input Format:

The first line contains N.

The second line contains N integers separated by a space.

Output Format:

The first line contains the HCF of the N integers.

Example Input/Output 1:

Input:

15 20 30 50

Output:

Example Input/Output 2:

Input:

5

14 28 35 70 92

Output:

Max Execution Time Limit: 1000 millisecs

Ambiance

```
C ( gcc 8.x)
```

Reset

```
1 #include<stdio.h>
 2 #include<stdlib.h>
 3 #define ULL unsigned long long int
 4 ULL hcf(ULL a, ULL b)
 5
 6
        if(b==0)
 7
        return a;
 8
        else
 9
        return hcf(b,a%b);
10
    int main()
11
12
    {
13
        int N;
14
        scanf("%d",&N);
        ULL arr[N];
15
        for(int index=0;index<N;index++)</pre>
16
17
        scanf("%llu",&arr[index]);
18
19
        ULL Hcf = hcf(arr[0],arr[1]);
        for(int index=2;index<N;index++)</pre>
20
21
22
            Hcf = hcf(Hcf,arr[index]);
23
        }
24
        printf("%llu",Hcf);
25
26
27
   }
```

Custom test case has passed

SUCCESS

You have executed a custom test case. Kindly un-check "Run with a custom test case (Input/Output)" to execute challenge test cases.

Save

Run

Run with a custom test case (Input/Output)