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Section: C	Department of Computer Science and Engineering, University of Asia Pacific
Subject: CSE 108	

Problem : **Growing Sequences**

```
#include <stdio.h>
```

```
int main(){
```

```
    int n, i;
```

```
    while(1){
```

```
        scanf("%d", &n);
```

```
        if(n == 0)break;
```

```
        printf("1");
```

```
        for(i = 2; i <= n;i++)
```

```
            printf(" %d", i);
```

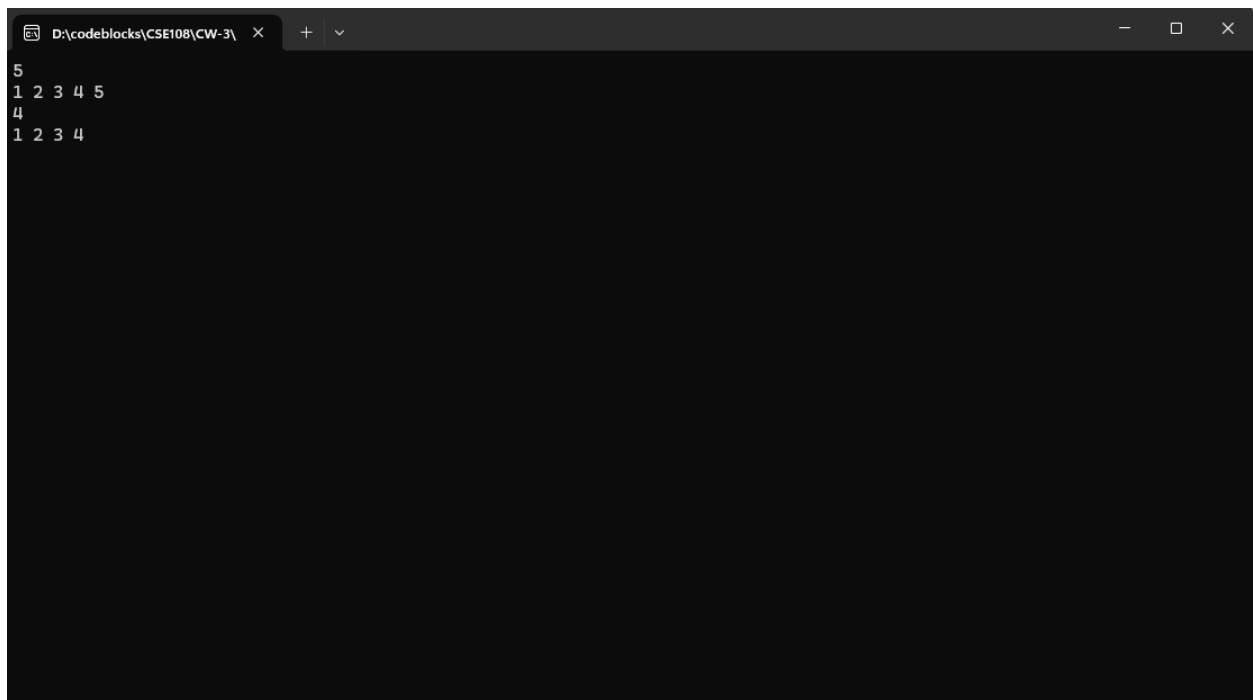
```
        printf("\n");
```

```
    }
```

```
    return 0;
```

```
}
```

Output:



```
D:\codeblocks\CSE108\CW-3\ x + v
5
1 2 3 4 5
4
1 2 3 4
```

Submission:

The screenshot shows a Beecrowd submission page for problem 1146, "Growing Sequences". The user's submission is accepted. The page includes a sidebar with navigation links (HOME, PROFILE, NEWS, OPPORTUNITIES, REFERRAL, ACADEMIC, CONTESTS, PROBLEMS, SUBMISSIONS, RANKS, SIGN OUT) and a main content area with a "SOURCE CODE" section. The source code is as follows:

```
1 #include <stdio.h>
2 int main(){
3
4     int n, i;
5     while(1){
6         scanf("%d", &n);
7         if(n == 0)break;
8         printf("1");
9         for(i = 2; i <= n; i++){
10             printf(" %d", i);
11             printf("\n");
12         }
13     }
14     return 0;
15 }
```

Problem: **Multiples of 13**

```
#include <stdio.h>
```

```
int main(){
```

```
int i, a, b, temp, s = 0;
```

```
scanf("%d %d", &a, &b);
```

```
if(a > b){temp = a; a = b; b = temp;}
```

```
for(i = a; i <= b; i++){
```

```
    if(i % 13 != 0) {
```

```
        s += i;
```

```
    }
```

```
}
```

```
printf("%d\n",s);
```

```
return 0;
```

```
}
```

Output:

```
D:\codeblocks\CSE108\CW-3\ x + v - □ x
100
200
13954

Process returned 0 (0x0)   execution time : 7.138 s
Press any key to continue.
|
```

Submission:

The screenshot shows a Beecrowd submission page. The user is 'MH, mehed1022'. The submission is for problem 1132 - Multiples of 13. The status is 'Accepted'. The source code is displayed in a C++ file named 'main.cpp'. The code reads two integers 'a' and 'b', and prints the remainder of 'a' divided by 'b'.

Submission Details:

- PROBLEM: 1132 - Multiples of 13
- ANSWER: Accepted
- LANGUAGE: C99 (gcc 4.8.5, std=c99 -O2 -lm) [+0s]
- RUNTIME: 0.000s
- FILE SIZE: 239 Bytes
- MEMORY: -
- SUBMISSION: 10/6/24, 8:28:13 PM

SOURCE CODE:

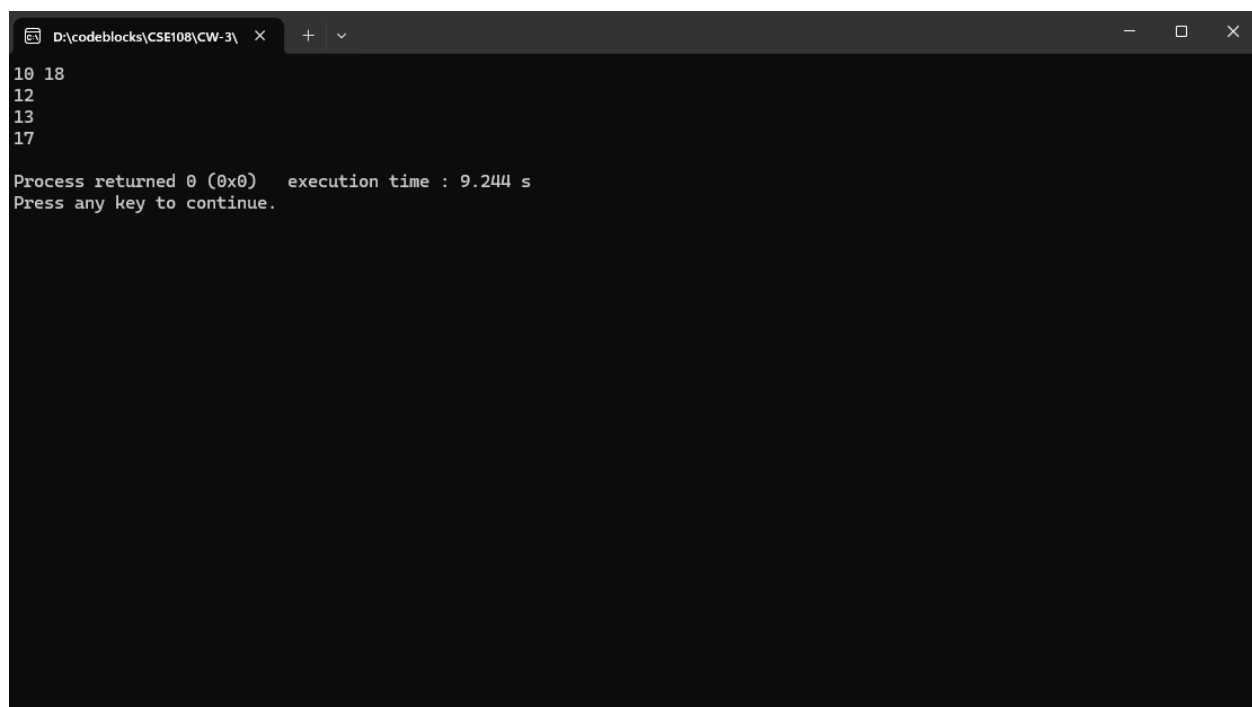
```
1 #include <stdio.h>
2 = int main(){
3     int a, b, temp, s = 0;
4     scanf("%d %d", &a, &b);
5     if(a > b){temp = a; a = b; b = temp;}
6     for(i = a; i <= b; i++){
7         if(i % 13 == 0) {
8             s++;
9         }
10    }
11    printf("%d\n", s);
12
13    return 0;
14 }
15
```

Problem: **Rest of a Division**

#include <stdio.h>

```
int main(){  
    int x, y, temp, i;  
    scanf("%d %d", &x, &y);  
  
    if(x > y){  
        temp = x; x = y; y = temp;  
    }  
    x++;  
    for(i = x; i < y; i++){  
        if(i % 5 == 2 || i % 5 == 3){  
            printf("%d\n", i);  
        }  
    }  
  
    return 0;  
}
```

Output:



The screenshot shows a terminal window with a dark background. The title bar at the top indicates the file path is D:\codeblocks\CSE108\CW-3\. The terminal output displays the numbers 10, 12, 13, and 17 on separate lines. Below these numbers, a message states: "Process returned 0 (0x0) execution time : 9.244 s". At the very bottom, it says "Press any key to continue."

```
D:\codeblocks\CSE108\CW-3\  x  +  v  -  □  x  
10 18  
12  
13  
17  
  
Process returned 0 (0x0)  execution time : 9.244 s  
Press any key to continue.
```

Submission:

The screenshot shows a Beecrowd submission page. At the top, a green notification bar says "Code received! Your submission was placed in the judging queue...". Below this, the "SOURCE CODE" section displays the submission details for problem 1133, "Rest of a Division". The submission is accepted, with a runtime of 0.000s and a file size of 249 bytes. The source code is shown in a text area, and a "SOURCE CODE" button is visible. On the left sidebar, there are links for "LIVE", "LIST", "TRIED", "FAQS", "ANSWERS", and "FORUM".

Problem: Easy Fibonacci

```
#include <stdio.h>
```

```
int main(){
```

```
int n, i, N[100];
```

```
scanf("%d", &n);
```

```
N[0] = 0;
```

```
N[1] = 1;
```

```
for(i = 2; i < n; i++){
```

```
    N[i] = N[i - 1] + N[i - 2];
```

```
}
```

```
printf("0");
```

```
for(i = 1; i < n; i++){
```

```
    printf(" %d", N[i]);
```

```
}
```

```
printf("\n");
```

```
return 0;
```

```
}
```

Output:

```
5
0 1 1 2 3

Process returned 0 (0x0)   execution time : 2.084 s
Press any key to continue.
```

Submission:

Hi, mehed1022
13301143@unipar.br

HOME PROFILE NEW OPPORTUNITIES REFERRAL ACADEMIC CONTESTS PROBLEMS SUBMISSIONS RANKS SIGN OUT

beecrowd

SOURCE CODE
VISUALIZE THE SOURCE CODE OF YOUR SUBMISSION, PLUS SOME EXTRA DETAILS.

SUBMISSION # 41858403

PROBLEM: 1151 - Easy Fibonacci
ANSWER: Accepted
LANGUAGE: C99 (gcc 4.8.5, std=c99 -O2 -lm) [+0s]
RUNTIME: 0.000s
FILE SIZE: 282 Bytes
MEMORY: -
SUBMISSION: 10/6/24, 9:12:39 PM

SOURCE CODE

```
1 #include <stdio.h>
2 int main(){
3
4     int n, i, N[100];
5     scanf("%d", &n);
6     N[0] = 0;
7     N[1] = 1;
8     for(i = 2; i <= n; i++){
9         N[i] = N[i - 1] + N[i - 2];
10    }
11    printf("\n");
12    for(i = 1; i <= n; i++){
13        printf(" %d", N[i]);
14    }
15    printf("\n");
16    return 0;
17 }
```

Problem: **Simple Factorial**

```
#include <stdio.h>
```

```
int main(){
```

```
    int n, s = 1, i;
```

```
    scanf("%d", &n);
```

```
    for(i = n; i >= 1; i --){
```

```
        s = s * i;
```

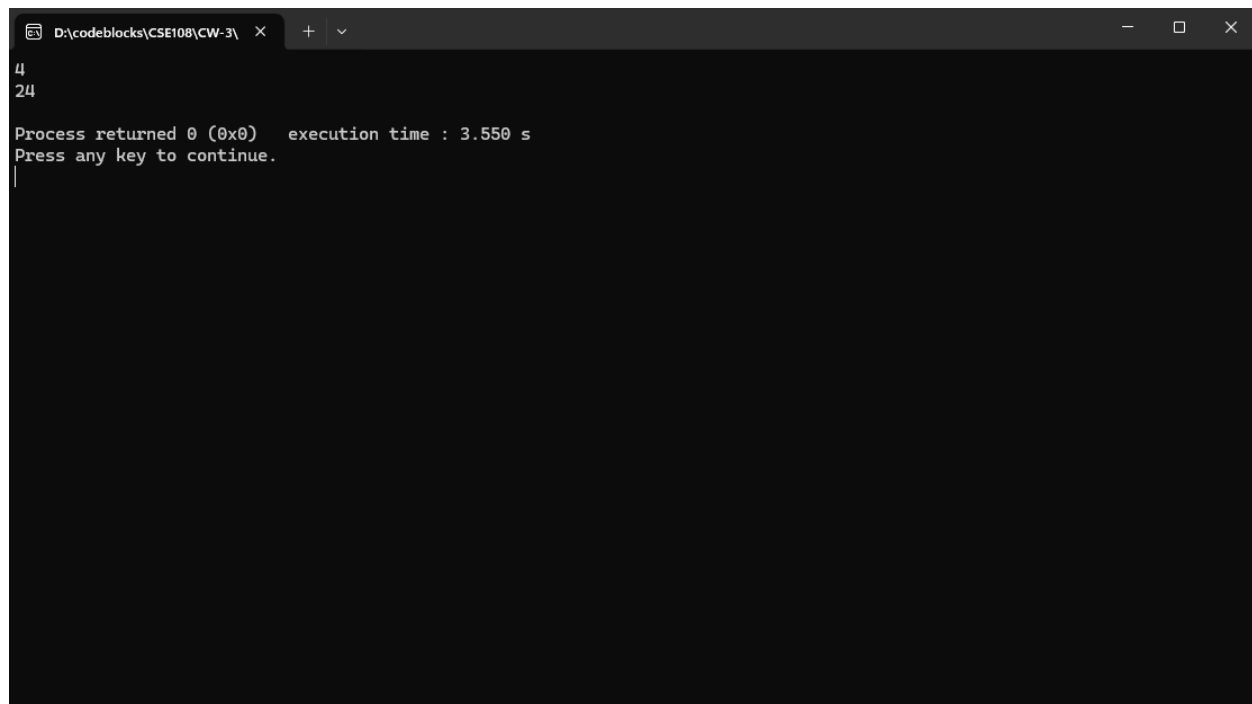
```
    }
```

```
    printf("%d\n", s);
```

```
    return 0;
```

```
}
```

Output:



```
D:\codeblocks\CSE108\CW-3\ x + v
4
24
Process returned 0 (0x0)   execution time : 3.550 s
Press any key to continue.
|
```

Submission:

The screenshot shows the Beecrowd website interface. At the top, there's a navigation bar with links: HOME, PROFILE, NEWS, OPPORTUNITIES, REFERRAL, ACADEMIC, CONTESTS, PROBLEMS, SUBMISSIONS, RANKS, and SIGN OUT. The user is logged in as 'Hj.mehedi1022'. A green notification bar at the top says 'Code received! Your submission was placed in the judging queue...'. The main content area is titled 'SOURCE CODE' and shows submission details for 'SUBMISSION # 41858474'. The problem is '1153 - Simple Factorial', the answer is 'Accepted', the language is 'C99 (gcc 4.8.5, std=c99 -O2 -lm) [-O6]', the runtime is '0.000s', the file size is '159 Bytes', and the submission time is '10/6/24, 9:21:38 PM'. The source code is displayed in a text area, showing a C program that reads an integer N and prints the factorial of N. The sidebar on the left contains links to various features: LIVE (What others are solving), LIST (List all your submissions), TRIED (Problems not solved yet), FAQs (Need help using the tool?), ANSWERS (What does this mean?), and FORUM (Get help to solve).

Problem: **Surname is not Easy**

```
#include <stdio.h>
```

```
#include <string.h>
```

```
int main()
```

```
{
```

```
    int N;
```

```
    char vowels[] = "aeiouAEIOU";
```

```
    scanf("%d", &N);
```

```
    char surname[43];
```

```
    for (int i = 0; i < N; i++)
```

```
{
```

```
scanf("%s", surname);
```

```
int len = strlen(surname);
```

```
int consonant_count = 0;
```

```
int is_hard = 0;
```

```
for (int j = 0; j < len; j++)
```

```
{
```

```
    if (strchr(vowels, surname[j]) == NULL)
```

```
    {
```

```
        consonant_count++;
```

```
        if (consonant_count >= 3)
```

```
        {
```

```
            is_hard = 1;
```

```
            break;
```

```
        }
```

```
    }
```

```
else
```

```
{
```

```
    consonant_count = 0;
```

```
}
```

```
}
```

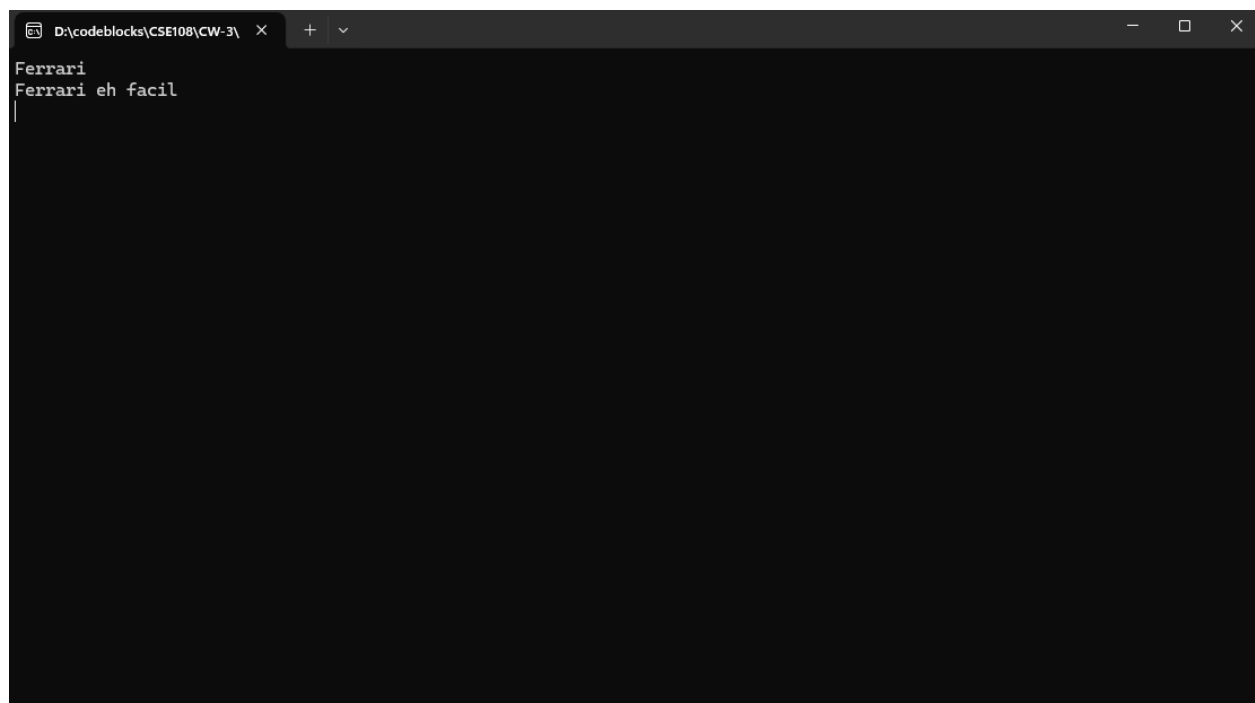
```
if (is_hard)
```

```
{
```

```
    printf("%s nao eh facil\n", surname);
```

```
    }  
    else  
    {  
        printf("%s eh facil\n", surname);  
    }  
}  
  
return 0;  
}
```

Output:



```
D:\codeblocks\CSE108\CW-3\ x + -  
Ferrari  
Ferrari eh facil  
|
```

Submission:



SOURCE CODE

EDIT & SUBMIT

VISUALIZE THE SOURCE CODE OF YOUR SUBMISSION, PLUS SOME EXTRA DETAILS.

SUBMISSION # 41858662

PROBLEM: 3358 - Surname is not Easy
ANSWER: **Accepted**
LANGUAGE: C99 (gcc 4.8.5, std=c99 -O2 -lm) [+0s]
RUNTIME: 0.000s
FILE SIZE: 933 Bytes
MEMORY: -
SUBMISSION: 10/6/24, 9:54:42 PM

SOURCE CODE

```
1 #include <stdio.h>
2 #include <string.h>
3
4 int main()
5 {
6     int N;
7     char vowels[] = "aeiouAEIOU";
8
9     scanf("%d", &N);
10
11     char surname[40];
12
13
14
15     for (int i = 0; i < N; i++)
16     {
17         scanf("%s", surname);
18
19
20         int len = strlen(surname);
21         int consonant_count = 0;
```