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main.c

```
1 #include <stdio.h>
2 #include <time.h>
3 #include <stdlib.h>
4
5 long long factorial(int n) {
6     long long fact = 1;
7     for (int i = 1; i <= n; i++)
8         fact *= i;
9     return fact;
10 }
11
12 int main() {
13     clock_t start_exec, end_exec;
14     FILE *mem_file;
15     unsigned long mem_usage;
16
17     // Compilation Time Measurement
18     clock_t start_comp = clock();
19     system("gcc binomial.c -o binomial_out"); // replace "binomial.c" with your filename
20     clock_t end_comp = clock();
21     double compilation_time = (double)(end_comp - start_comp) / CLOCKS_PER_SEC;
22
23     // Execution Time Measurement
24     start_exec = clock();
25     int n = 5;
26     double x = 1.0;
27     double result = 0;
28 }
```

input

```
Binomial Series Result: 32.00
Compilation Time: 0.000061 seconds
Execution Time: 0.000021 seconds
Memory Usage: 3612 KB


...Program finished with exit code 0
Press ENTER to exit console.
```

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Language C

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main.c

```
25 int n = 5;
26 double x = 1.0;
27 double result = 0;
28
29 for (int k = 0; k <= n; k++) {
30     result += (factorial(n) / (double)(factorial(k) * factorial(n - k))) * pow(x, k);
31 }
32 end_exec = clock();
33
34 // Memory Usage
35 mem_file = fopen("/proc/self/statm", "r");
36 if (mem_file) {
37     fscanf(mem_file, "%lu", &mem_usage);
38     fclose(mem_file);
39 }
40
41 printf("Binomial Series Result: %.2lf\n", result);
42 printf("Compilation Time: %.6f seconds\n", compilation_time);
43 printf("Execution Time: %.6f seconds\n", (double)(end_exec - start_exec) / CLOCKS_PER_SEC);
44 printf("Memory Usage: %lu KB\n", mem_usage * (getpagesize() / 1024));
45
46 return 0;
47 }
48
49
50
51
52
```

input

Binomial Series Result: 32.00
Compilation Time: 0.000061 seconds
Execution Time: 0.000021 seconds
Memory Usage: 3612 KB


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main.c


```
1 #include <stdio.h>
2 #include <time.h>
3 #include <math.h>
4 #include <stdlib.h>
5
6 int main() {
7     clock_t start_exec, end_exec;
8     FILE *mem_file;
9     unsigned long mem_usage;
10
11     // Compilation Time
12     clock_t start_comp = clock();
13     system("gcc armstrong.c -o armstrong_out");
14     clock_t end_comp = clock();
15     double compilation_time = (double)(end_comp - start_comp) / CLOCKS_PER_SEC;
16
17     // Execution Time
18     start_exec = clock();
19     int num = 153, sum = 0, temp, digits = 0;
20     temp = num;
21
22     while (temp) {
23         temp /= 10;
24         digits++;
25     }
26
27     temp = num;
28     while (temp) {
```

input

```
153 is an Armstrong number
Compilation Time: 0.000072 seconds
Execution Time: 0.000021 seconds
Memory Usage: 3612 KB

...Program finished with exit code 0
Press ENTER to exit console.
```

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main.c


```
27 temp = num;
28 while (temp) {
29     sum += pow(temp % 10, digits);
30     temp /= 10;
31 }
32 end_exec = clock();
33
34 // Memory Usage
35 mem_file = fopen("/proc/self/statm", "r");
36 if (mem_file) {
37     fscanf(mem_file, "%lu", &mem_usage);
38     fclose(mem_file);
39 }
40
41 if (sum == num)
42     printf("%d is an Armstrong number\n", num);
43 else
44     printf("%d is not an Armstrong number\n", num);
45
46 printf("Compilation Time: %.6f seconds\n", compilation_time);
47 printf("Execution Time: %.6f seconds\n", (double)(end_exec - start_exec) / CLOCKS_PER_SEC);
48 printf("Memory Usage: %lu KB\n", mem_usage * (getpagesize() / 1024));
49
50 return 0;
51 }
52
53
54
```

input

153 is an Armstrong number
Compilation Time: 0.000072 seconds
Execution Time: 0.000021 seconds
Memory Usage: 3612 KB

...Program finished with exit code 0
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main.c

```
1 #include <stdio.h>
2 #include <time.h>
3 #include <stdlib.h>
4
5 int main() {
6     clock_t start_exec, end_exec;
7     FILE *mem_file;
8     unsigned long mem_usage;
9
10    // Compilation Time
11    clock_t start_comp = clock();
12    system("gcc leap.c -o leap_out");
13    clock_t end_comp = clock();
14    double compilation_time = (double)(end_comp - start_comp) / CLOCKS_PER_SEC;
15
16    // Execution Time
17    start_exec = clock();
18    int year = 2024;
19
20    if ((year % 4 == 0 && year % 100 != 0) || (year % 400 == 0))
21        printf("%d is a Leap Year\n", year);
22    else
23        printf("%d is not a Leap Year\n", year);
24    end_exec = clock();
25
26    // Memory Usage
27    mem_file = fopen("/proc/self/statm", "r");
28    if (mem_file) {
```

input

```
2024 is a Leap Year
Compilation Time: 0.000078 seconds
Execution Time: 0.000032 seconds
Memory Usage: 2680 KB

...Program finished with exit code 0
Press ENTER to exit console.
```


Language C

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Language C

main.c

```
12 system("gcc leap.c -o leap_out");
13 clock_t end_comp = clock();
14 double compilation_time = (double)(end_comp - start_comp) / CLOCKS_PER_SEC;
15
16 // Execution Time
17 start_exec = clock();
18 int year = 2024;
19
20 if ((year % 4 == 0 && year % 100 != 0) || (year % 400 == 0))
21     printf("%d is a Leap Year\n", year);
22 else
23     printf("%d is not a Leap Year\n", year);
24 end_exec = clock();
25
26 // Memory Usage
27 mem_file = fopen("/proc/self/statm", "r");
28 if (mem_file) {
29     fscanf(mem_file, "%lu", &mem_usage);
30     fclose(mem_file);
31 }
32
33 printf("Compilation Time: %.6f seconds\n", compilation_time);
34 printf("Execution Time: %.6f seconds\n", (double)(end_exec - start_exec) / CLOCKS_PER_SEC);
35 printf("Memory Usage: %lu KB\n", mem_usage * (getpagesize() / 1024));
36
37 return 0;
38 }
39
```

input

```
2024 is a Leap Year
Compilation Time: 0.000078 seconds
Execution Time: 0.000032 seconds
Memory Usage: 2680 KB

...Program finished with exit code 0
Press ENTER to exit console.
```


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