```c
#include <stdio.h>

int main() {
    int a;
    printf("Enter a number: ");
    scanf("%d", &a);
    if (fork() == 0) {
        a++;
    }
    printf("The value of a is %d\n", a);
    return 0;
}
```

```
/tmp/VRNKwyqVea.o
Enter a number: 34
The value of a is 34
The value of a is 35
```
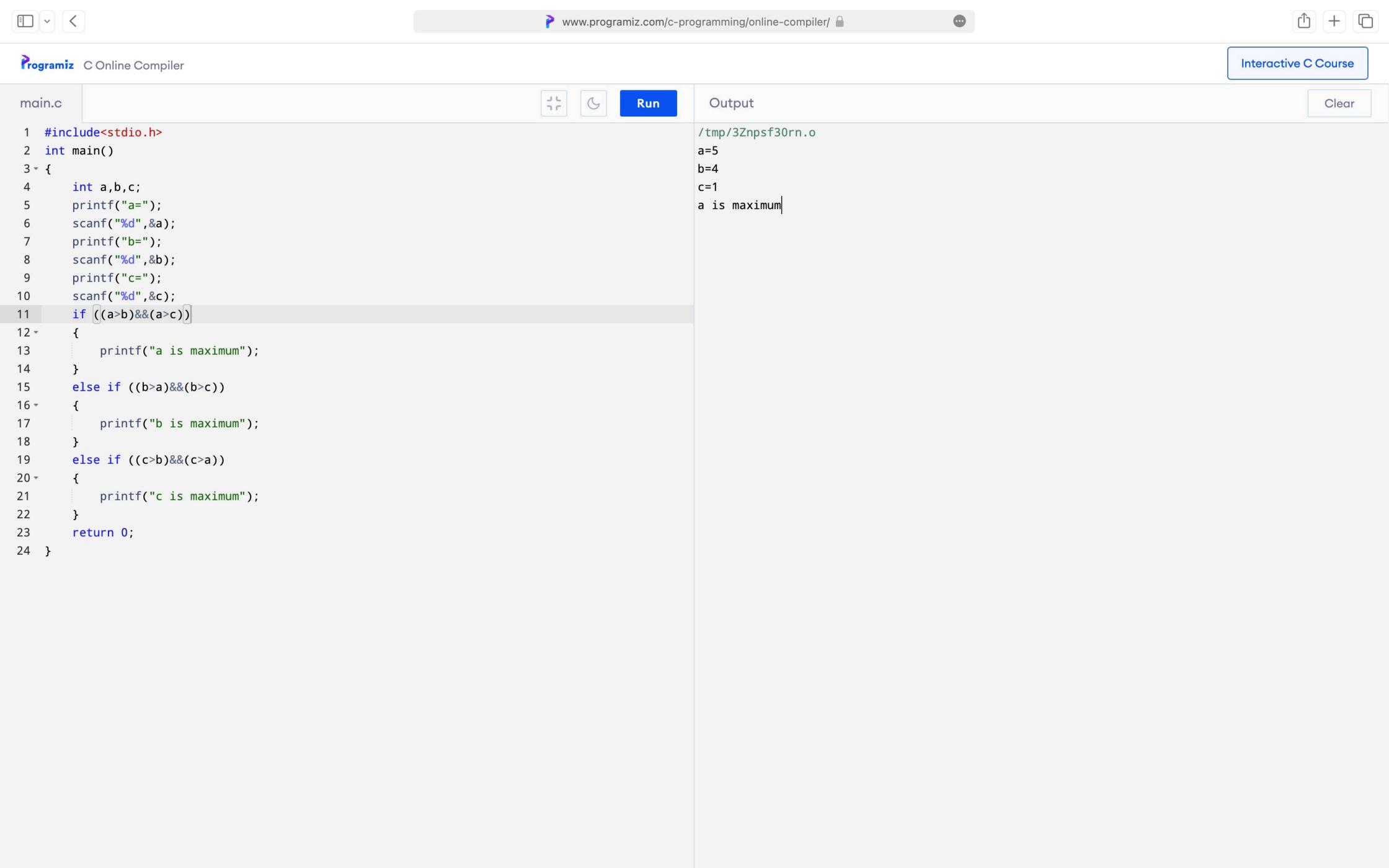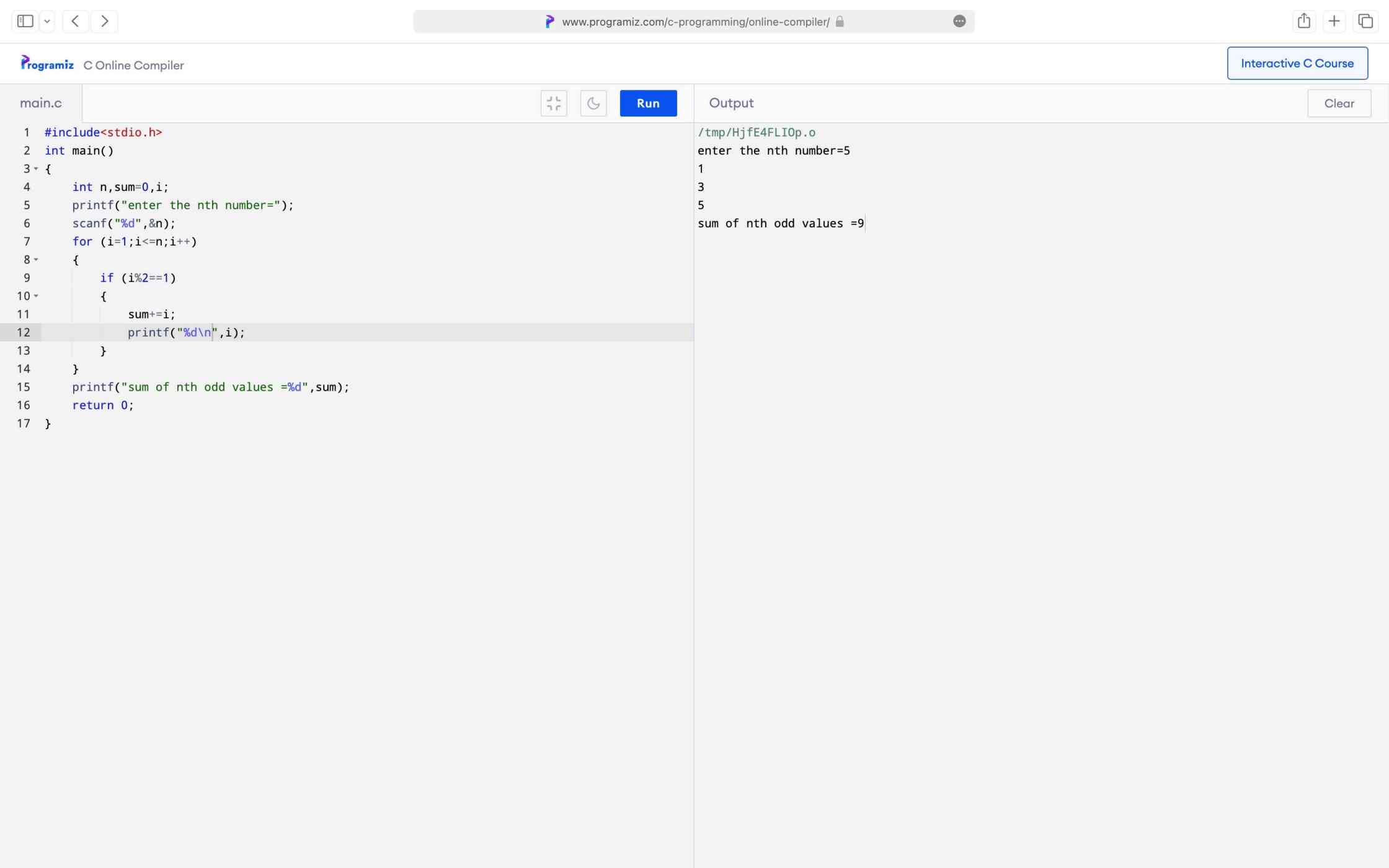
```c
3
4   int main() {
5       char names[100][100];
6       char temp[100];
7       int n, i, j, order;
8
9       printf("Enter the number of names: ");
10      scanf("%d", &n);
11
12      printf("Enter the names:\n");
13      for (i = 0; i < n; i++) {
14          scanf("%s", names[i]);
15      }
16
17      printf("Enter the sort order (A/D): ");
18      scanf(" %c", &order);
19
20      for (i = 0; i < n; i++) {
21          for (j = i + 1; j < n; j++) {
22              if ((order == 'A' && strcmp(names[i], names[j]) > 0) ||
23                  (order == 'D' && strcmp(names[i], names[j]) < 0)) {
24                  strcpy(temp, names[i]);
25                  strcpy(names[i], names[j]);
26                  strcpy(names[j], temp);
27              }
28          }
29      }
30
31      printf("Sorted names:\n");
32      for (i = 0; i < n; i++) {
33          printf("%s ", names[i]);
34      }
35      printf("\n");
36
37      return 0;
38  }
39
40
```
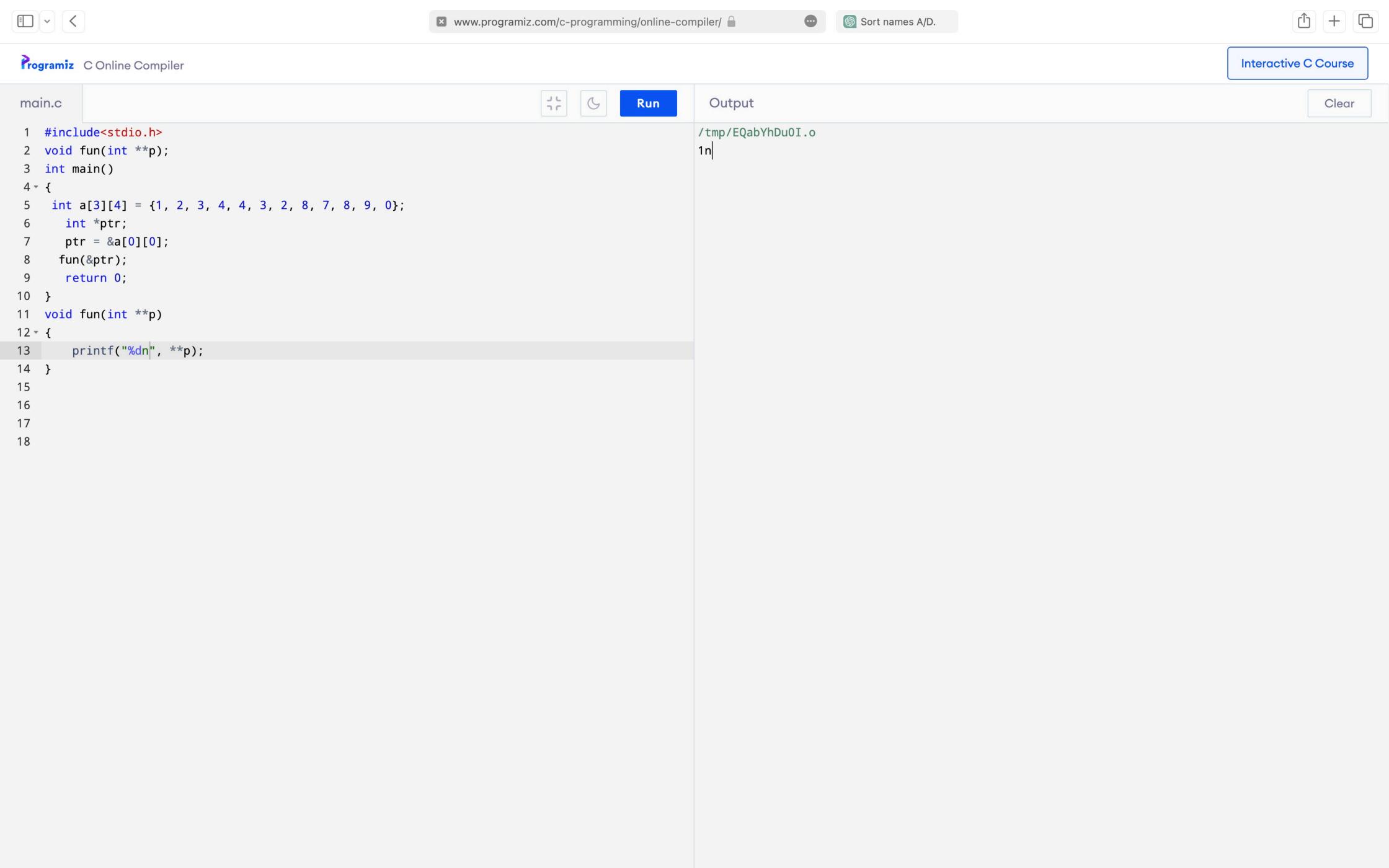
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main.c

Output

Clear

```c
#include<stdio.h>
int main()
{
    int a,b,c;
    printf("a=");
    scanf("%d",&a);
    printf("b=");
    scanf("%d",&b);
    printf("c=");
    scanf("%d",&c);
    if ((a>b)&&(a>c))
    {
        printf("a is maximum");
    }
    else if ((b>a)&&(b>c))
    {
        printf("b is maximum");
    }
    else if ((c>b)&&(c>a))
    {
        printf("c is maximum");
    }
    return 0;
}
```

```
/tmp/3Znpsf30rn.o
a=5
b=4
c=1
a is maximum
```

main.c

Run

Output

Clear

```c
#include<stdio.h>
int main()
{
    int n,sum=0,i;
    printf("enter the nth number=");
    scanf("%d",&n);
    for (i=1;i<=n;i++)
    {
        if (i%2==1)
        {
            sum+=i;
            printf("%d\n",i);
        }
    }
    printf("sum of nth odd values =%d",sum);
    return 0;
}
```

```
/tmp/HjfE4FLIOp.o
enter the nth number=5
1
3
5
sum of nth odd values =9
```

Sort names A/D.

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Interactive C Course

main.c

Run

Output

```c
#include<stdio.h>
void fun(int **p);
int main()
{
  int a[3][4] = {1, 2, 3, 4, 4, 3, 2, 8, 7, 8, 9, 0};
   int *ptr;
   ptr = &a[0][0];
  fun(&ptr);
   return 0;
}
void fun(int **p)
{
   printf("%dn", **p);
}
```

```
/tmp/EQabYhDu0I.o
1n
```

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Interactive C Course

main.c

Run

Output

Clear

```
1   #include<stdio.h>
2   int main()
3   {
4       int arr[1200]={2, 3, 4, 1, 6};
        printf("%u, %u, %un", arr, &arr[1200], &arr);
        return 0;
    }
```

/tmp/EQabYhDu0I.o
676235440, 676240240, 676235440n

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main.c

Run   Output   Clear

```c
#include <stdio.h>
int main() {
    int a = 1;
    while (a <= 100) {
        printf("%d\n", a * a);
        a++;
    }
    return 0;
}
```

```
/tmp/VRNKwyqVea.o
1
4
9
16
25
36
49
64
81
100
121
144
169
196
225
256
289
324
361
400
441
484
529
576
625
676
729
784
841
900
961
1024
1089
1156
1225
1296
1369
```

```c
#include <stdio.h>
int main()
{
    char c;
    printf("Enter a character: ");
    scanf("%c", &c);
    (c >= 'A' && c <= 'Z') || (c >= 'a' && c <= 'z') ?
    printf("%c is an alphabet\n", c) :
    printf("%c is not an alphabet\n", c);
    return 0;
}
```

Output

```
/tmp/VRNKwyqVea.o
Enter a character: 78tr
7 is not an alphabet
```

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main.c | Run | Output | Clear

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

#define MAX_SIZE 100

int main() {
    char str[MAX_SIZE];
    int freq[256] = {0};
    int max_freq = 0;
    char max_char;

    printf("Enter a string: ");
    fgets(str, MAX_SIZE, stdin);

    for (int i = 0; i < strlen(str); i++) {
        char c = str[i];
        if (c != '\n') {
            freq[c]++;
            if (freq[c] > max_freq) {
                max_freq = freq[c];
                max_char = c;
            }
        }
    }

    printf("The highest occurring character is '%c' with frequency %d.\n", max_char,
        max_freq);

    return 0;
}
```

```
/tmp/VRNKwyqVea.o
Enter a string: maximum
The highest occurring character is 'm' with frequency 3.
```

```c
#include<stdio.h>
int tmp=20;
main( ) {
printf("%d ",tmp); func( ); printf("%d ",tmp);
}
func() {
static int tmp=10;
printf("%d ",tmp); }
```

Output

```
/tmp/VRNKwyqVea.o

20 10 20
```