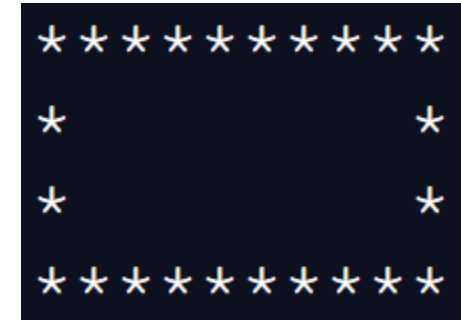


# Competitive Coding

Day 2- Formatted Output

# Day 1 Homework Review

# Which code will print the rectangle to the right?



A

```
#include <iostream>
using namespace std;
int main() {
    cout << "*****";
    cout << " *      *";
    cout << " *      *";
    cout << "*****";
}
```

B

```
#include <iostream>
int main() {
    cout << "*****"<<endl;
    cout << " *      *"<<endl;
    cout << " *      *"<<endl;
    cout << " *      *"<<endl;
    cout << "*****"<<endl;
}
```

C

```
#include <iostream>
using namespace std;
int main() {
    cout << "*****"<<endl;
    cout << " *      *"<<endl;
    cout << " *      *"<<endl;
    cout << " *      *"<<endl;
    cout << "*****"<<endl;
}
```

D

```
using namespace std;
int main() {
    cout << "*****"<<endl;
    cout << " *      *"<<endl;
    cout << " *      *"<<endl;
    cout << " *      *"<<endl;
    cout << "*****"<<endl;
}
```

E. More than one of them will work

# What will the following code print out?

```
#include <iostream>
using namespace std;
int main() {
    cout<<"hell";
    cout<<"o"<<endl;
    cout<<"worl"<<endl;
    cout<<"d";
}
```

- A. hello world
- B. hello  
world
- C. hello  
worl  
d
- D. none of the above

# Introduction

- What is formatted output?
  - How many ways can you display 621 as a number?
    - A. only one way
    - B. two ways
    - C. many ways!

# Formatted Output Using cout

- Standard format

```
cout<<expression 1 << expression 2...;
```

## Example

```
cout<<"My name is Paul"<<endl;
```

# What does it output?

```
1  #include <iostream >
2  using namespace std;
3  int main()      {
4      int num1=2897, num2=5, num3=837,
5      num4=34, num5=7, num6=1623,
6      num7=390, num8=3456, num9=12;
7      cout <<num1 <<"    " <<num2 <<"    " << num3 <<"\n";
8      cout <<num4 <<"    " <<num5 <<"    " << num6 <<"\n";
9      cout <<num7 <<"    " <<num8 <<"    " << num9 <<"\n";
10
11     return 0;
12 }
```

A.

2897 5 837  
34 7 1623  
390 3467 12

B.

2897 5 837  
34 7 1623  
390 3467 12

# Write a code to generate the following

- Write a program that prints out “C S !” in large block letters inside a border of \*s followed by two blank lines then the message Computer Science is Cool Stuff. The output should look as follows:

```
*****
      C C C      S S S S      !!
    C      C      S      S      !!
  C      S      S      S      !!
C      S      S S S S      !!
C      S S S S      S      !!
C      S      S      S      !!
  C      S      S      S      !!
    C      C      S S S S      00
      C C C
*****

Computer Science is Cool Stuff!!!
```