

Homework #5

There Was a Farmer Had an Array

Assigned: October 5, 2017

Due: Oct. 12 by 11:59:59 PM

Write a C++ program which will print the lyrics to the song Bingo. The catch: the name of the dog **must** be stored in a constant array of characters, and this array must be used **every** time the dog's name needs to be printed to the screen.

Requirements:

- Name the source file for your program `program5.cpp`
- The following two declarations are required, in the global space:
`const int SIZE = 5;`
`const char dog[SIZE] = {'B', 'I', 'N', 'G', 'O'};`
- Any time the word BINGO needs to be printed, even partially, it must be by accessing the array
 - For printing the partial name, this means that you must access the array to print the letters in BINGO.
- A sample run of your program should look *exactly* like:

```
There was a farmer had a dog
and B I N G O was his name-o
B I N G O
B I N G O
B I N G O
And B I N G O was his name-o
```

```
There was a farmer had a dog
and B I N G O was his name-o
* I N G O
* I N G O
* I N G O
And B I N G O was his name-o
```

```
There was a farmer had a dog
and B I N G O was his name-o
* * N G O
* * N G O
* * N G O
And B I N G O was his name-o
```

```
There was a farmer had a dog
and B I N G O was his name-o
* * * G O
* * * G O
* * * G O
And B I N G O was his name-o
```

```
There was a farmer had a dog
and B I N G O was his name-o
* * * * O
* * * * O
* * * * O
And B I N G O was his name-o
```

```
There was a farmer had a dog
and B I N G O was his name-o
* * * * *
* * * * *
* * * * *
And B I N G O was his name-o
```

Hints:

- The full name “BINGO” appears twice in each verse, a function could be helpful.
- One approach to printing the name of the dog involves nested loops. Plan your loops out beforehand.
- Get the full song to print without worrying about the “*” first. This division of labor will help you isolate the code where you need to focus on printing the partial name

Reminders:

- Be sure that your program includes your name, ID, description, etc. as shown in the General Homework Requirements Handout
- Use good style including indentation, comments, etc. Part of the grade will be for style and quality.
- Carefully test your program.
- You are welcome to write your program at home. If you do, be sure to compile and test it in the lab before submitting it.

How to submit your program:

- Submit the file `program5.cpp` electronically using `~cs211b/bin/handin 5 program5.cpp`