Write a C++ program that displays a Letter Pyramid from a user-provided std::string.

Prompt the user to enter a std::string and then from that string display a Letter Pyramid as follows:

It's much easier to understand the Letter Pyramid given examples.

If the user enters the string "**ABC**", then your program should display:

1. A
2. ABA
3. ABCBA

If the user enters the string, "**12345**", then your program should display:

1. 1
2. 121
3. 12321
4. 1234321
5. 123454321

If the user enters '**ABCDEFG**', then your program should display:

1. A
2. ABA
3. ABCBA
4. ABCDCBA
5. ABCDEDCBA
6. ABCDEFEDCBA
7. ABCDEFGFEDCBA

If the user enters '**ABCDEFGHIJKLMNOPQRSTUVWXYZ**', then your program should display:

1. A
2. ABA
3. ABCBA
4. ABCDCBA
5. ABCDEDCBA
6. ABCDEFEDCBA
7. ABCDEFGFEDCBA
8. ABCDEFGHGFEDCBA
9. ABCDEFGHIHGFEDCBA
10. ABCDEFGHIJIHGFEDCBA
11. ABCDEFGHIJKJIHGFEDCBA
12. ABCDEFGHIJKLKJIHGFEDCBA
13. ABCDEFGHIJKLMLKJIHGFEDCBA
14. ABCDEFGHIJKLMNMLKJIHGFEDCBA
15. ABCDEFGHIJKLMNONMLKJIHGFEDCBA
16. ABCDEFGHIJKLMNOPONMLKJIHGFEDCBA
17. ABCDEFGHIJKLMNOPQPONMLKJIHGFEDCBA
18. ABCDEFGHIJKLMNOPQRQPONMLKJIHGFEDCBA
19. ABCDEFGHIJKLMNOPQRSRQPONMLKJIHGFEDCBA
20. ABCDEFGHIJKLMNOPQRSTSRQPONMLKJIHGFEDCBA
21. ABCDEFGHIJKLMNOPQRSTUTSRQPONMLKJIHGFEDCBA
22. ABCDEFGHIJKLMNOPQRSTUVUTSRQPONMLKJIHGFEDCBA
23. ABCDEFGHIJKLMNOPQRSTUVWVUTSRQPONMLKJIHGFEDCBA
24. ABCDEFGHIJKLMNOPQRSTUVWXWVUTSRQPONMLKJIHGFEDCBA
25. ABCDEFGHIJKLMNOPQRSTUVWXYXWVUTSRQPONMLKJIHGFEDCBA
26. ABCDEFGHIJKLMNOPQRSTUVWXYZYXWVUTSRQPONMLKJIHGFEDCBA

If the user enters "C++isFun!", then your program should display:

1. C
2. C+C
3. C+++C
4. C++i++C
5. C++isi++C
6. C++isFsi++C
7. C++isFuFsi++C
8. C++isFunuFsi++C
9. C++isFun!nuFsi++C

Think about the problem before you begin and break it down into steps.

This can be a very challenging problem to solve!

Have fun!