CP1H1 Script, Output, and Pseudocode

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Algorithm 1 Powers of 2

```
procedure POWERS OF 2
    Print out first line of the table
    for the numbers 0-8 do
        Print the number, tab, and print value
```

Listing 1: CP1H1 Script

```
/*
 * ============================================================================
 *
 *       Filename:  CP1H1_MBROD.cpp
 *       Assignment: C++ Lab #1 Homework 1
 *       Title: Powers of 2 Calculator
 *
 *    Description:  Displays 2 to the power of 0 through 8
 *
 *        Version:  1.0
 *        Created:  11/05/2022
 *       Revision:  none
 *       Compiler:  GCC
 *
 *         Author:  M. Brodskiy
 *
 * ============================================================================
 */

#include <iostream> // Include header file for input/output
#include <cmath>  // Include header file for powers

```

```
using namespace std; // Declare standard namespace use

int main() {

    // Print first line of table
    cout << "Power (P)\tValue of 2^P" << endl;


    for (int i = 0; i <= 8; i += 1) {// Loop through values 0-8

        cout << "     " << i << "\t\t     " << pow(2,i) << endl;
        // Perform math and spacing assignments

    }

    return 0; // Return 0 to signify successful exit code

}
```

Listing 2: CP1H1 Output

```
Power (P)        Value of 2^P
    0                1
    1                2
    2                4
    3                8
    4                16
    5                32
    6                64
    7                128
    8                256
Press ENTER or type command to continue
```