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//File name: logTable.cpp
//Created by: Tan Qi Hao
//Creation date: 2/28/2019
/*Synopsis: This program displays the table of log value in base 10. */

#include<iostream>
#include<iomanip>
#include<cmath>
using namespace std;

int main(){

    int a;          //a is base value.
    int b;          //b is the starting value.
    int rows;       //The number of rows of the table.
    int columns;    //The number of columns of the table.
    int preci;      //The precision of the number

    cout << "Enter start value for base a: ";
    cin >> a;

    cout << "Enter how many base value: ";
    cin >> rows;

    cout << "Enter start value for b: ";
    cin >> b;

    cout << "Enter how many b values: ";
    cin >> columns;

    cout << "Enter precision: ";
    cin >> preci;
    cout << endl;

    cout << "Table starts at logarithm of b = " << b << " with base a = "
        << a << endl;

    cout << "Log Values";

    int i; //Loop variable i for the columns.

    for (i = 0; i < columns; i++){

        cout << setw(preci + 4) << right << "b + " << setw(1) << i;

    }

    cout << endl;

    int j; //Loop variable j for the rows

    for (j = 0; j < rows; j++){

        cout << setw(9) << right << "a + " << j;

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int k; //Loop variable k for the number in the table.

for (k = 0; k < columns; k++){

    cout << setw(preci + 5) << right << fixed << setprecision(preci) <<
log( b + k ) / log( a + j );

}

cout << endl;

}

return 0;
}
```