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CS 31

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1. the output is:

endlendl

grendel

2.

The sentence:

It takes user input x and prints out a diagonal line, from bottom left to upper right, of a rectangular box using the symbol #.

Possible qualification:

The number of lines equals the integer x.

It’s rectangular because space looks shorter than “#”.

3. The program looks like this:

#include <iostream>

using namespace std;

int main()

{

int len;

cout << "Enter a number: ";

cin >> len;

for (int i = 0; i < len; i++)

{

int j=i+1;

while (j<len)

{

j++;

cout << " ";

}

cout << "#" << endl;

}

}

4. The program look like this

#include <iostream>

using namespace std;

int main()

{

int len;

int i=0;

cout << "Enter a number: ";

cin >> len;

if (len<0)

exit (0);

do {

int j=i+1;

while (j<len)

{

cout << " ";

j++;

}

i++;

cout << "#" << endl;

}while (i<len);

}

5. The program look like this:

#include <iostream>

using namespace std;

int main()

{

int month;

cin >> month;

switch (month) {

case 6:

cout << "northern solstice";

break;

case 12:

cout << "southern solstice";

break;

case 3:

case 9:

cout << "equinox";

break;

default:

cout << "nothing special";

break;

}

}