

SAMPLE RUN #1

```
int main()
{
    // #1 this is my testing code right here that I will use for the 'LongestIncreasingSequence' funcn
    //-----
    // SAMPLE RUN #1

    const unsigned ARRAY_SIZE = 10;
    long array[] = { 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 };
    //-----

    // #2 outputs the value of the longest sequence of increasing elements
    cout << "The longest sequence of assending elements is " << LongestIncreasingSequence(array, ARRAY_SIZE)
        << " in length." << endl;

    system("PAUSE");
    return 0;
}
```

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The longest sequence of assending elements is 10 in length.
Press any key to continue . . .

SAMPLE RUN #2

```
int main()
{
    // #1 this is my testing code right here that I will use for the 'LongestIncreasingSequence' funcn
    //-----
    // SAMPLE RUN #2

    const unsigned ARRAY_SIZE = 10;
    long array[] = { 9, 8, 7, 6, 5, 4, 3, 2, 1, 0 };
    //-----

    // #2 outputs the value of the longest sequence of increasing elements
    cout << "The longest sequence of assending elements is " << LongestIncreasingSequence(array, ARRAY_SIZE)
        << " in length." << endl;

    system("PAUSE");
    return 0;
}
```

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The longest sequence of assending elements is 0 in length.
Press any key to continue . . .

SAMPLE RUN #3

```

int main()
{
    // #1 this is my testing code right here that I will use for the 'LongestIncreasingSequence' fucn
    //-----
    // SAMPLE RUN #3

    const unsigned ARRAY_SIZE = 3;
    long array[] = { 1, 2, 3};
    //-----

    // #2 outputs the value of the longest sequence of increasing elements
    cout << "The longest sequence of assending elements is " << LongestIncreasingSequence(array, ARRAY_SIZE)
        << " in length." << endl;

    system("PAUSE");
    return 0;
}

```

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The longest sequence of assending elements is 3 in length.
Press any key to continue . . .

SAMPLE RUN #4

```

int main()
{
    // #1 this is my testing code right here that I will use for the 'LongestIncreasingSequence' fucn
    //-----
    // SAMPLE RUN #4

    const unsigned ARRAY_SIZE = 13;
    long array[] = { -1, -2, 3, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9};
    //-----

    // #2 outputs the value of the longest sequence of increasing elements
    cout << "The longest sequence of assending elements is " << LongestIncreasingSequence(array, ARRAY_SIZE)
        << " in length." << endl;

    system("PAUSE");
    return 0;
}

```

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The longest sequence of assending elements is 10 in length.
Press any key to continue . . .

SAMPLE RUN #5

```

int main()
{
    // #1 this is my testing code right here that I will use for the 'LongestIncreasingSequence' fucn
    //-----
    // SAMPLE RUN #5

    const unsigned ARRAY_SIZE = 14;
    long array[] = { -12, -1, -2, 3, 0, 1, 2, -1, 9999, -9999, 10, 18, 13, -13};
    //-----

    // #2 outputs the value of the longest sequence of increasing elements
    cout << "The longest sequence of assending elements is " << LongestIncreasingSequence(array, ARRAY_SIZE)
         << " in length." << endl;

    system("PAUSE");
    return 0;
}

```

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```

The longest sequence of assending elements is 3 in length.
Press any key to continue . . .

```