Graphs

2 вопросов

Отправить контрольный опрос

1.

What's the maximum number of edges in a **directed** graph with n vertices?

- Assume there are no self-loops.
- Assume there there is at most one edge from a given start vertex to a given end vertex.

NOTE: you might wonder why we're asking you a math question. It turns out that the relationship between the number of vertices and the number of edges in our graph data structure will have a huge impact on the performance of our code. In order to analyze our algorithms and predict which problems we'll be able to feasibly solve, we need to get through some calculations.

One more note: the answer to this question is a math expression. Use the input tool to make sure your syntax matches up with the expected format.

Предварительный просмотр

$$n(n-1)$$

n*(n-1)

2.

What's the maximum number of edges in an undirected graph with n vertices?

- Assume there are no self-loops.
- Assume there there is at most one edge from a given start vertex to a given end vertex.

Предварительный просмотр

$$\frac{1}{2}\,n(n-1)$$

n*(n-1)/2

Отправить контрольный опрос