Red Scare! Report

by Alice Cooper.

Results

The following table gives my results for all graphs of at least 500 vertices.

Instance name	п	A	F	M	N	S
rusty-5762 wall-p-10000	5,762 10,000	true	16	_	?	5
:						

The columns are for the problems Alternate, Few, Many, None, and Some. The table entries either give the answer, or contain '?' for those cases where I was unable to find a solution within reasonable time. For those questions where there is a reason for my inability to find a good algorithm (because the problem is hard), I wrote '?!'.

For the complete table of all results, see the tab-separated text file results.txt.

Methods

For problem A, I solved each instance G by \cdots^1 The running time of this algorithm is \cdot , and my implementation spends \cdots seconds on the instance \cdots with $n = \cdots$.

I solved problem \cdots for all \cdots graphs using \cdots .

I was unable to solve problem \cdots except for the \cdots instances. This is because, in generality, this problem is \cdots . To see this, consider the following reduction from \cdots . Let \cdots

I was also unable to solve · · · for · · · , but I don't know why.3

¹ Describe what you did. Use words like "building a inverse anti-tree without self-loops where each vertex in *G* is presented by a Strogatz–Wasserman shtump. I then performed a standard longest hash sorting using the algorithm of Bronf (Algorithm 5 in [1])." Be neat, brief, and precise.

- ² For instance, "planar, bipartite"
- ³ Remove or expand as necessary.

References

- 1. APLgraphlib—A library for Basic Graph Algorithms in APL, version 2.11, 2016, Iverson Project, github.com/iverson/APLgraphlib.⁴
- 2. A. Lovelace, *Algorithms and Data Structures in Pascal*, Addison-Wesley 1881.
- ⁴ If you use references to code, books, or papers, be professional about it. Use whatever style you want, but be consistent.