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Title: Simple construction of nonisomorphic graphs

Abstract: All graphs on n vertices can naturally be constructed by considering all binary strings of length $\binom{n}{2}$, where 1 indicates the presence and 0 the absence of a particular edge. We consider a similar scheme for constructing nonisomorphic graphs, called simple graph construction. This is not trivial, given the difficulty of the graph isomorphism problem (considered to be in NP but not NP-complete) and the fact that Pólya's Theorem is required to determine the number of nonisomorphic graphs. We consider a particular simple construction which creates a large number of nonisomorphic graphs, and argue that, in some sense, it may be the best possible.