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*An Exploration of Sequence A000975,*  
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**Abstract**

Sequence A000975 in the Online Encyclopedia of Integer Sequences (OEIS) starts out 1, 2, 5, 10, 21, 42, 85, . . . . As of July 1, 2016, the description in the OEIS lists several characterizations of this sequence and numerous examples of instances where this sequence occurs. It also presents a “not yet proved” result, a conjecture, and an unanswered question concerning this sequence. In this paper we show that all of these proposed results are in fact true.