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On types of growth for graph-different permutations. (English) Zbl 1211.05150

Summary: We consider an infinite graph $G$ whose vertex set is the set of natural numbers and adjacency depends solely on the difference between vertices. We study the largest cardinality of a set of permutations of $[n]$ any pair of which differ somewhere in a pair of adjacent vertices of $G$ and determine it completely in an interesting special case. We give estimates for other cases and compare the results in case of complementary graphs. We also explore the close relationship between our problem and the concept of Shannon capacity “within a given type.”

MSC:

05C78 Graph labelling (graceful graphs, bandwidth, etc.)
05A05 Permutations, words, matrices

Keywords:

textual

Full Text: DOI arXiv

References:

[1] G. Brightwell, M. Fairthorne, Permutation capacity of graphs, manuscript

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