

THE MAXIMAL SUBSEMIGROUPS
OF THE IDEALS OF SOME SEMIGROUPS
OF PARTIAL INJECTIONS

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Abstract

We study the structure of the ideals of the semigroup IO_n of all isotone (order-preserving) partial injections as well as of the semigroup IM_n of all monotone (order-preserving or order-reversing) partial injections on an n -element set. The main result is the characterization of the maximal subsemigroups of the ideals of IO_n and IM_n .

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