Abstract

This paper proposes an algorithm to derive a general formula to count the total number of onto functions feasible from a set A with cardinality n to a set B with cardinality m. Let f:A→B be a function such that |A|=n and |B|=m, where A and B are finite and non-empty sets, n and m are finite integer values. To count the total number of onto functions feasible till now we have to design all of the feasible mappings in an onto manner, this paper will help in counting the same without designing all possible mappings and will provide the direct count on onto functions using the formula derived in it.

References

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An Algorithm to Count onto Functions


Index Terms

Computer Science   Algorithms

Keywords

Function   Onto   Cardinality   Mappings   Transformations   Stirling Number