

Re: Can you find one-to-one function like this?

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- *From:* israel@xxxxxxxxxxx (Robert Israel)
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In article <1115220036.388836.158860@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>, <sangjeong.kim@xxxxxxxxxx> wrote:

>Let $S = \{1, 2, \dots, n\}$.

>Let A be the set of subsets of S having k elements.

>Let B be the set of subsets of S having $n-k$ elements.

>If $2k < n$, then is there one-to-one function $f : A \rightarrow B$ such that C is >subset of $f(C)$ for all C in A ?

Hint: Use König's Theorem (also known as the Marriage Theorem).

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• **References:**

- ◆ [*Can you find one-to-one function like this?*](#)

◇ *From:* sangjeong . kim

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