

## 2 rings with a special property

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Hi,

I want to find two rings  $R_1$ ,  $R_2$  and a homomorphism  $f: R_1 \rightarrow R_2$  between the two rings. I need some special properties:

1.  $R_1$  should have many ideals
2. Kernel of  $f$  should not look too "special" in any way.  
I.e. for example if we are dealing with matrices and the kernel of homomorphism is such that last column or last row is all zeroes, then it's not quite satisfactory because then it looks "special" as opposed to other regular elements which don't have this 0s property.
3. I also would like  $|\ker f|/|R_1|$  to be fairly small.

Any suggestions of where to start?

Thanks for advice.