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Subject: Re: vectorization challenge! (help!)  
Posted by [Mariolcandenza](#) on Thu, 19 Jul 2007 17:56:51 GMT  
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Let's throw some memory at the problem, shall we?

Note: this is completely untested.

```
n = 24
npeeps = 50
gn1 = findgen(n,npeeps)
gn2 = findgen(n,npeeps)
cutoff = .01
; here is the array-based version of your task
swap=randomu(seed,n,npeeps)
bswap=swap le cutoff; binary
nswap_per_row=total(bswap,1); number to swap in each row
nswap_mask=rebin(transpose(nswap_per_row),n,npeeps); each cell has N
to swap in that row

swapi=reverse(lindgen(n,npeeps) mod n),1); each row N-1 to 0
bswapi=swapi lt nswap_mask; if NSWAP_PER_ROW=N, swaps entire row

fswap=where(bswapi, nswap)
if(nswap gt 0) then gn1[fswap] = gn2[fswap]
```

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