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For all steps i>0: $n / 2^{i-1}$ entities send an attack	
Number of steps = log n	
An attack can cross $1 + (i(i + 1))/2$ links.	
number of messages = $\sum_{i=1}^{\log n} (n / 2i - 1)(1 + (i(i + 1) / 2))$ = $O(n)$	
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## Correctness

Let  $\mathsf{id}(x)$  be the smallest Id in one of the sub-cubes of dimension i, Then x will be  $\mbox{ Queen of level i+1}$ 

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