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1. Alice and Bob has several apples and bananas and they want to split these fruits. Both of them like both fruits, but value them differently. For Alice, 1 apple is exactly equivalent to 2 bananas. For Bob, 2 apples are exactly equivalent to 1 banana.

Show that the way to split all the fruits is Pareto optimal if and only if

- either Alice has no bananas
- or Bob has no apples.

Solution:

2.	Let us consider a modified game of Nim: on each turn a player may remove some number of pebl	oles
	from one pile or split this pile into two piles. Compute the Grudny function for this game for all	$th\epsilon$
	initial states with one pile.	