ADM Chz PONETT 52 Welgh renaining unweight 1v1. Heavier ball will be ordert Weigh 3v3 Weigh 1v1 among the heavier 3 (eq? heavier side ways 3 = 3. Mays 2 2+) Maysy = ( , Mays3 20 C G 3 choice of marge for first, 2 rem. choice for 30rd. . ( ways,  $=\left(\sum_{i=1}^{n-1}i\right)$ . Ways, =1 $= \sum_{i=1}^{n-1} \cdot \sum_{i=1}^{n-2} \cdot \sum_{i=1}^{n-3} \cdot \dots \sum_{i=1}^{l} i$ N-1 summertions

$$= \frac{1}{2} \frac{(i+1)i}{2} = \frac{(i+1)i}{2} \cdot \frac{(2+1)2}{2} \cdot \frac{(3+1)3}{2} \cdot \dots \cdot \frac{(n(n-1))}{2}$$

$$= \frac{2 \cdot 6 \cdot 12 \cdot 20 \cdot \dots \cdot 4n^{2-n}}{2^{n-1}}$$

$$= \frac{1!2!}{2!} \cdot \frac{(i+1)i}{2^{n-1}} \cdot \frac{(n-1)!}{2^{n-1}} \cdot \frac{(i+1)}{2^{n-1}}$$

$$= \frac{(n-1)!}{2^{n-1}} \cdot \frac{(n-1)!}{2^{n-1}} \cdot \frac{(n-1)!}{2^{n-1}}$$

$$= \frac{(n-1)!}{2^{n-1}} \cdot \frac{(n-1)!}{2^{n-1}} \cdot \frac{(n-1)!}{2^{n-1}}$$

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$$= \frac{(n-1)!}{2^{n-1}} \cdot \frac{(n-1)!}{2^{n$$

000000 ×0000 Assumer Warra Kill targed fi 7; affect flom eile! noy, B makes w money So Perdecision What purentes

54,55

VVVXXX all be possible in scenario with I indivisable dollar, 3rd senior gets it While no one dres B wouldn't vote against this because if A dies, le'll have to do > similar plan to stay alive, which would be contrigent on ( following through, Which is loss givenested than if he houself secured his own life by votily yes.

n = 3/4/ = 24.6 = 18

Actually 36

\* A: it pirots went offers to like N-A doesn't affect Perautione then senior gets it.

Stroot. Welk bottoms up from 2 pirotes. Kind the attorne of bose are, Plen derive nel outcome given cook pirote compares their situation to the n outcome