## Hint for Problem 235

Notice that it is straightforward to figure out how many ways we may pass out the apples so that child $i$ gets five or more apples: give five apples to child $i$ and then pass out the remaining apples however you choose. And if we want to figure out how many ways we may pass out the apples so that a given set $C$ of children each get five or more apples, we give five to each child in $C$ and then pass out the remaining $k-5|C|$ apples however we choose.

