

1. $n[Q] |vac\rangle = 0$: unless all operators in Q are creation operator

2. $\langle vac| n[Q] |vac\rangle = 0$

3. $\langle vac| n[\overbrace{M_1 M_2 M_3 \dots M_{n-1} M_n}] |vac\rangle = 0$: unless all are contracted

4. If $n = \text{odd}$, then $\langle vac| n[Q] |vac\rangle = 0$