

Q4

Prove Partial Correctness

Supp. Meps terminates
while exit condition: $j \geq \text{len}(b)$
LI(a): $0 \leq j \leq \text{len}(b)$

$$j \geq \text{len}(b) \text{ and } j \leq \text{len}(b) \Rightarrow j = \text{len}(b)$$

c is returned [line 8]

LI(b): c = # of non-empty even parity s.s. in $b[0:j]$

We know $b[0:\text{len}(b)] = b$ and $j = \text{len}(b)$
so $b[0:j] = b$

Thus the # of non-empty even parity s.s. in b is returned ~~is~~