

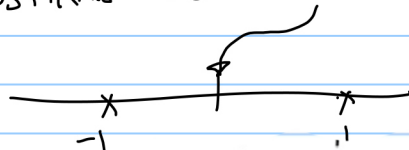
of msg bld = $2z$
 # of transmitted bld = 66

lowest rate = $\frac{1}{3}$

- shortening
 $2z$: # of message bits
 if only A bits are available,
 $2z - A$ bits are set to zero

- Puncturing of parity
 $4bz$: # of parity bits
 if only E bits are to be transmitted,
 $(E - (A - 2z))$ of the $4bz$ parity bits are transmitted

Punctured positions: set $r = 0$
 (message)



Shortened message & punctured parity: disregard column in decoding

- if not possible, shortened message: $r = \text{large +ve quantity}$
 punctured parity: $r = 0$