Quiz 2

S = length 6 strings from $\{1, 2, .. 9\}$.

1. $|S| = 9^6$

2. $9^3 + 9^3$ $\quad (= 1458)$

   111 222

3. 9^2 $\quad 11 \underset{9}{_} \underset{9}{_} 44$ $\quad (= 81)$

4. (a) $f : B \to T$ $\quad f(x) = xxx$

   or $f(ab) = ababab$,

   concatenate 3 copies of input.

   (b) $|T| = |B| = 9^2 = 81$