Exercise 1:
We have shown that $C_{D_0}(f^{(t)}_{decode}) \leq 2^t + (2t - 2)2^{\frac{t}{2}}$. What is the best upper bound which you can obtain?

Exercise 2:

a) Complete Case $n = 3$ in the proof of Theorem 2.2 of the lecture.

b) Prove Lemma 2.1 of the lecture.

Exercise 3:
Give some examples of symmetric functions.