

## HW4-2

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1. (30%) Design a 4-bit two parameter comparator (input A and B,  $A:a_3a_2a_1a_0$ ,  $B:b_3b_2b_1b_0$  are both in 2's complement representation) and output the smaller one  $S(s_3s_2s_1s_0)$ .
2. (10%) Construct a 5-to-32-line decoder with four 3-to-8-line decoders with enable and a 2-to-4-line decoder.