

Dennis Kuzminer
CSCI-UA 310-001 PS4

1. $\text{ExtEuclid}(117, 67) \rightarrow$

i	0	1	2	3	4	5
a_i	117	67	50	17	16	1
b_i	67	50	17	16	1	0
s_i	-4	3	-1	1	0	1
t_i	7	-4	1	-1	1	0
q_i	1	1	2	1	16	

$$d = 1$$

$$s = -4$$

$$t = 7$$

$$as + bt = d \rightarrow 117(-4) + 67(7) = 1$$