(d) double hashing $\quad h_2(x) = 7 - (x \bmod 7)$

0	
1	79
2	15
3	
4	17
5	
6	99
7	423
8	411
9	
10	
11	89
12	64

$17 \bmod 13 = 4$

$423 \bmod 13 = 7$

$64 \bmod 13 = 12$

$79 \bmod 13 = 1$ $\qquad$ (Wrong)

$411 \bmod 13 = 8$

$89 \bmod 13 = 11$

$99 \bmod 13 = 8$

collision

$7 - (99 \bmod 7) = 7 - 6 = 1$

$15 \bmod 13 = 2$

(d) double hashing $\quad h_2(x) = 7 - (x \bmod 7)$

0	99
1	79
2	15
3	
4	17
5	
6	
7	423
8	411
9	
10	
11	89
12	64

$99 \bmod 13 = 8$ collision

$79 \bmod 13 = 1$ $\qquad$ $7 - 99 \bmod 7 = 6$ $\qquad$ start probing

$15 \bmod 13 = 2$ $\qquad$ $8 + 1 \cdot 6 = 14$

$\qquad$ $14 \% 13 = 1$ taken

$17 \bmod 13 = 4$ $\qquad$ $8 + 2 \cdot 6 = 20$

$\qquad$ $20 \% 13 = 7$ taken

$\qquad$ $8 + 3 \cdot 6 = 26$

$423 \bmod 13 = 7$ $\qquad$ $26 \% 13 = 0$ not taken

$411 \bmod 13 = 8$

$89 \bmod 13 = 11$

$64 \bmod 13 = 12$