

Q2: $u_1:4$ $u_2:1$ $u_3:2$ $u_4:6$ $u_5:3$ $u_6:8$ $u_7:7$ $u_8:0$ $u_9:5$ $u_{10}:9$

Step 1:

				u_1					
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$h(u_1) = h(4) = 4$ put u_1 into the hash table

Step 2:

				u_1	u_2				
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$h(u_2) = h(1) = 5$ put u_2 into the hash table

Step 3:

				u_1	u_2	u_3			
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$h(u_3) = h(2) = 5$ put u_3 after u_2 and the space is empty

Step 4:

				u_1	u_2	u_3	u_4		
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$h(u_4) = h(6) = 4$ put u_4 after u_1 but there is no space until after u_3 , so put it after u_3

Step 5:

u_5				u_1	u_2	u_3	u_4		
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$h(u_5) = h(3) = 0$ put u_5 into the hash table

Step 6:

u_5				u_1	u_2	u_3	u_4	u_6	
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$h(u_6) = h(8) = 5$ put u_6 after u_2 but there is no space until after u_4 , so put it after u_4

Step 7:

u_5	u_7			u_1	u_2	u_3	u_4	u_6	
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$h(u_7) = h(7) = 0$ put u_7 after u_5

Step 8:

u_5	u_7	u_8		u_1	u_2	u_3	u_4	u_6	
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$h(u_8) = h(0) = 0$ put u_8 after u_5 but there is no space until after u_7 , so put it after u_7

Step 9:

u_5	u_7	u_8	u_9	u_1	u_2	u_3	u_4	u_6	
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$h(u_9) = h(5) = 3$ put u_9 into the hash table

Step 10:

u_5	u_7	u_8	u_9	u_1	u_2	u_3	u_4	u_6	u_{10}
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$h(u_{10}) = h(9) = 5$ put u_{10} after u_2 , but

there is no space until after u_5 , so

put it after u_5

so we get

3	7	0	5	4	1	2	6	8	9
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