

Insert into an initially empty hash table of size 13 the following keys, in order, using the given precomputed hash values and **linear probing** to handle collisions.

Key	John	Mary	Sam	Jane	Eve	Zoe	Max	Jack	Lou	Ada	Ash	Ben
$h(k)$	3	0	6	5	4	3	6	10	9	3	12	4

Insert John:

			John									
0	1	2	3	4	5	6	7	8	9	10	11	12

Insert Mary:

Mary			John									
0	1	2	3	4	5	6	7	8	9	10	11	12

Insert Sam:

Mary			John			Sam						
0	1	2	3	4	5	6	7	8	9	10	11	12

Insert Jane:

Mary			John		Jane	Sam						
0	1	2	3	4	5	6	7	8	9	10	11	12

Insert Eve:

Mary			John	Eve	Jane	Sam						
0	1	2	3	4	5	6	7	8	9	10	11	12

Insert Zoe:

Mary			John	Eve	Jane	Sam	Zoe					
0	1	2	3	4	5	6	7	8	9	10	11	12

Insert Max:

Mary			John	Eve	Jane	Sam	Zoe	Max				
0	1	2	3	4	5	6	7	8	9	10	11	12

Insert Jack:

Mary			John	Eve	Jane	Sam	Zoe	Max		Jack		
0	1	2	3	4	5	6	7	8	9	10	11	12

Insert Lou:

Mary			John	Eve	Jane	Sam	Zoe	Max	Lou	Jack		
0	1	2	3	4	5	6	7	8	9	10	11	12

Insert Ada:

Mary			John	Eve	Jane	Sam	Zoe	Max	Lou	Jack	Ada	
0	1	2	3	4	5	6	7	8	9	10	11	12

Insert: Ash

Mary			John	Eve	Jane	Sam	Zoe	Max	Lou	Jack	Ada	Ash
0	1	2	3	4	5	6	7	8	9	10	11	12

Insert: Ben

Mary	Ben		John	Eve	Jane	Sam	Zoe	Max	Lou	Jack	Ada	Ash
0	1	2	3	4	5	6	7	8	9	10	11	12