Intial Table

index 0										10
0	0	0	0	0	5	0	0	0	0	0

Table size = 11

$hash_1(x) = x \% \text{ table size}$

$hash_2(x) = 5 - (x \% 5)$

$\therefore h_i(x) = (hash_1(x) + i\, hash_2(x)) \% 11$

Add 16

$h_0(16) = 16 \% 11$

$= 5$ collision !

$h_1(16) = (5 + (5 - (16 \% 5))) \% 11$

$= (5 + 4) \% 11$

$= 9$ Valid !

0										10
0	0	0	0	0	5	0	0	0	16	0

Add 27

$h_0(27) = 27 \% 11$

$= 5$ collision !

$h_1(27) = (5 + (5 - (27 \% 5))) \% 11$

$= (5 + (3)) \% 11$

$= 8 \% 11$

$= 8$ Valid !

0										10
0	0	0	0	0	5	0	0	27	16	0

Add 9

$h_0(9) = 9 \% 11$

$= 9$ collision !

$h_1(9) = (9 + (5 - (9 \% 5))) \% 11$

$= 10 \% 11$

$= 10$ Valid !

0										10
0	0	0	0	0	5	0	0	27	16	9

Delete 16

0										10
0	0	0	0	0	5	0	0	27	D	9

Add 20

$h_0(20) = 20 \% 11$

$= 9$ Valid !

0										10
0	0	0	0	0	5	0	0	27	20	9

Add 16

$h_0(16) = 16 \% 11$

$= 5$ collision !

$h_1(16) = (5 + (5 - (16 \% 5))) \% 11$

$= (5 + 4) \% 11$

$= 9$ collision !

$h_2(16) = (5 + 2 \cdot (5 - (16 \% 5))) \% 11$

$= 2$ valid !

0										10
0	0	0	20	0	5	0	0	27	16	9

0	0	16	0	0	5	0	0	27	20	9

Z Ans