Intial Table

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

Table size = 11

$hash(x) = x \,\%$ table size

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

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

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

$h_0(20) = 20 \,\%\, 11$

$= 9$ collision !

$h_1(20) = (9 + (5 - (20 \,\%\, 5))) \,\%\, 11$

$= 14 \,\%\, 11$

$= 3$ Valid !

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

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	20	0	5	0	0	27	16	9

0	0	0	20	0	5	0	0	27	16	9

Z Ans