

Use the following table of squares modulo 11 to find all integers  $n$  between 100 and 120 which have the property that  $n^2 + 8$  is divisible by 11.

$x$	(mod 11)	0	1	2	3	4	5	6	7	8	9	10
$x^2$	(mod 11)	0	1	4	9	5	3	3	5	9	4	1