

## Decimal to Octal

Convert the following decimal numbers into octal:

- 25
- 100
- 255
- 1024

25 in decimal = 31 in octal

Input	Quotient	Remainder	Output
$25 / 8$	3	$0.125 * 8$	1
$3 / 8$	0	$0.375 * 8$	3

100 in decimal = 144 in octal

Input	Quotient	Remainder	Output
$100 / 8$	12	$0.5 * 8$	4
$12 / 8$	1	$0.5 * 8$	4
$1 / 8$	0	$0.125 * 8$	1

255 in decimal = 377 in octal

Input	Quotient	Remainder	Output
$255 / 8$	31	$0.875 * 8$	7
$31 / 8$	3	$0.875 * 8$	7
$3 / 8$	0	$0.375 * 8$	3

1024 in decimal = 2000 in octal

Input	Quotient	Remainder	Output
$255 / 8$	128	$0.0 * 8$	0
$128 / 8$	16	$0.0 * 8$	0
$16 / 8$	2	$0.0 * 8$	0
$2 / 8$	0	$0.25 * 8$	2