```
 * One algorithm for converting a decimal number to octal is as follows:
 *
 * i is equal to 0
 * while (the decimal number is not 0) {
 * the octal number = the octal number + (remainder of the division of the decimal number
by 8) * 10 to the power of i
 * the decimal number = the decimal number / 8
 * increase i by 1
 * }
```

```
int i = 0, octal = 0;
while (decimalNumber != 0)
{
    octal = octal + (decimalNumber % 8) * Math.pow(10, i);
    decimalNumber = decimalNumber / 8;
    i++;
}
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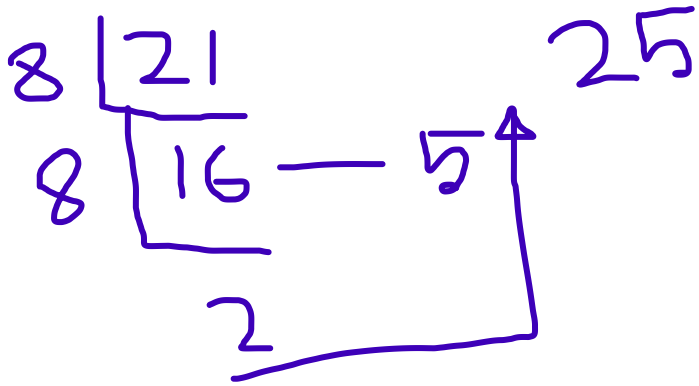

$21_{10} = 25_8$