

385 Express  $2^{int}$  without using exponentiation. You may introduce auxiliary names.

After trying the question, scroll down to the solution.

§ *powint* where

1,  $\text{powint} \times 2$ ,  $\text{powint} / 2$ : *powint*

1,  $B \times 2$ ,  $B / 2$ :  $B \Rightarrow \text{powint}: B$

OR

1/2, 1, 2,  $\text{powint} \times \text{powint}$ : *powint*

1/2, 1, 2,  $B \times B$ :  $B \Rightarrow \text{powint}: B$