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'''
The purpose of this program is to convert an integer to a binary list with a specified
number of values.  The inputs will be determined by the user.  If the user-selected
number of values is less than the number of values required to give the binary
representation, the program will output an array of values with the minimal length
required instead of the user-selected length.

The bin function performs the binary conversion operation by evenly dividing the input
number repeatedly until it is equal to zero.  The ones and zeroes are appended to the
output array.  The array is then reversed, so that it is right justified.  The final
display is the right justified array.

'''
class intToBinary:

    def __init__(self):

        #Global variables
        self.n = 0
        self.a = []

        #Prompt the user for inputs
        self.n = int(input("\nEnter an integer to be converted: "))
        self.aLength = input("\nEnter the number of places to be converted: ")

        #Convert to binary
        self.bin(self.n)

        #Check current length against specified length and add zeroes
        while len(self.a) < int(self.aLength):
            self.a.append(0)

        #Reverse the order and display
        print ("\n" + str(list(reversed(self.a))))

    def bin(self, n):
        while self.n > 0:

            #Check for even numbers
            if self.n % 2 == 0:
                self.n = int(self.n/2)
                self.a.append(0)

            #Check for odds
            elif self.n % 2 == 1:
                self.n = int(self.n/2)
                self.a.append(1)

i = intToBinary()
```