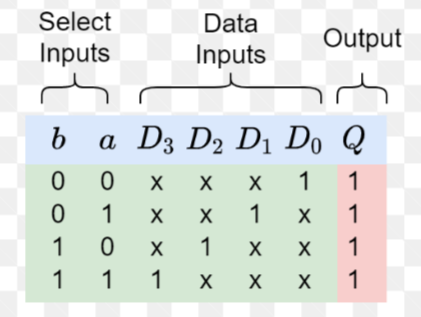
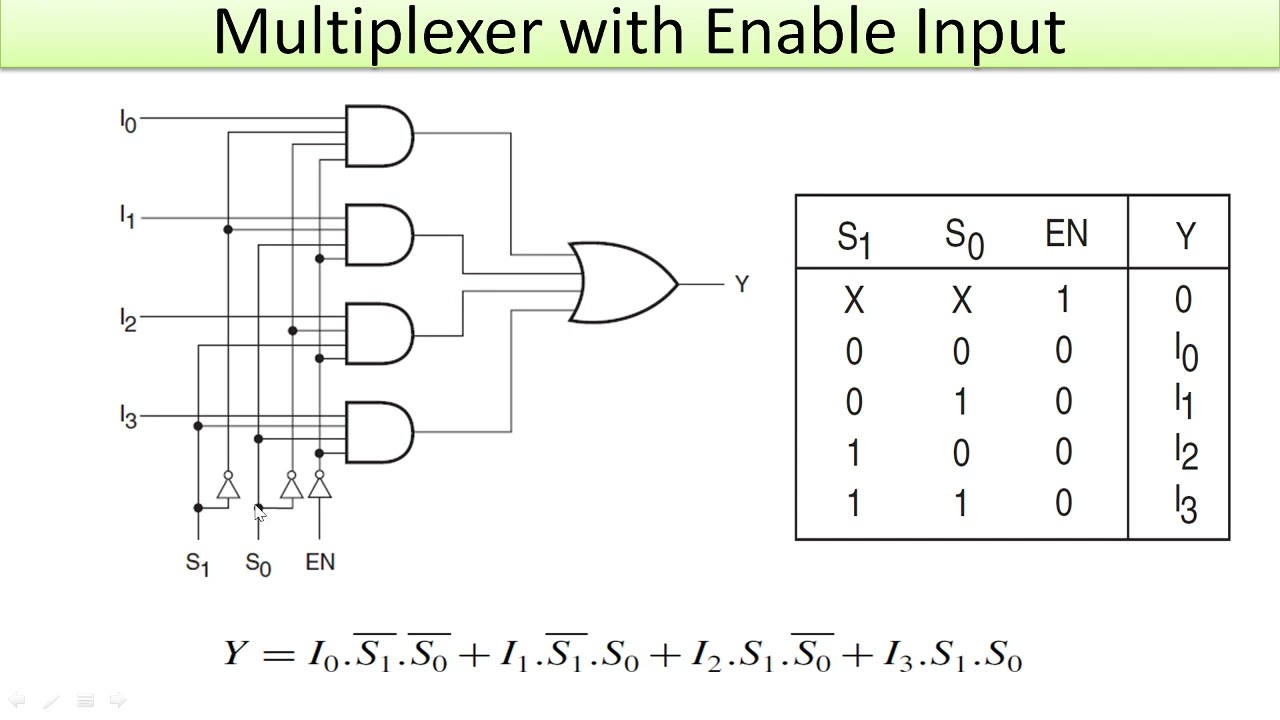
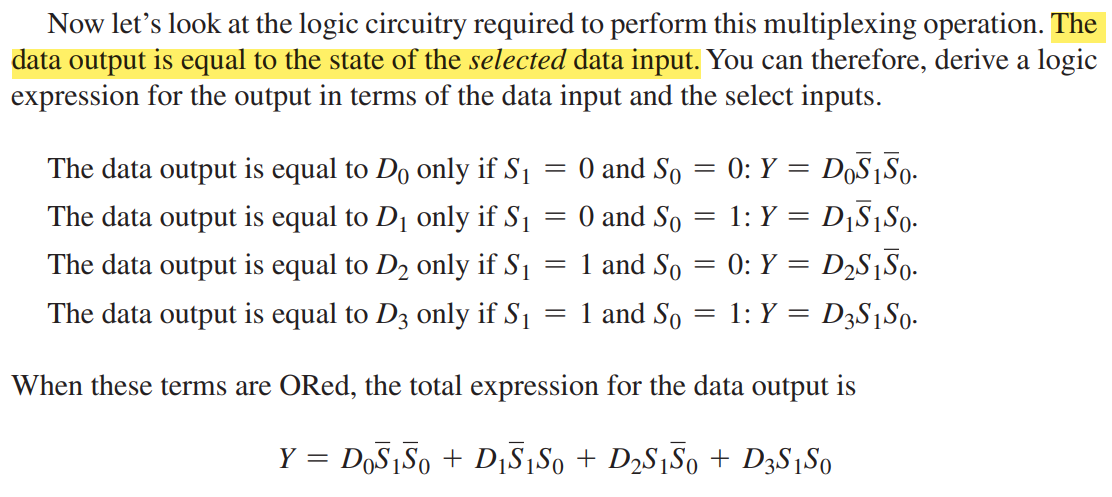


A table with numbers and symbols

Description automatically generatedFor example, with two select lines, the multiplexer can choose between four different inputs (2^2 = 4 combinations), and with three select lines, it can choose between eight different inputs (2^3 = 8 combinations), and so on.





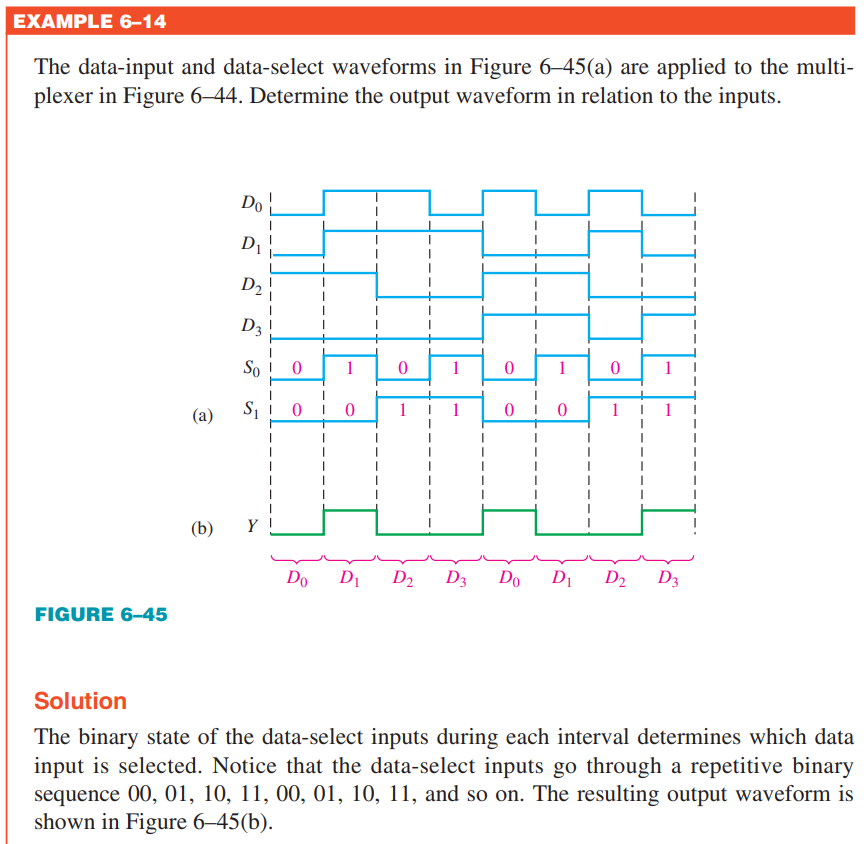


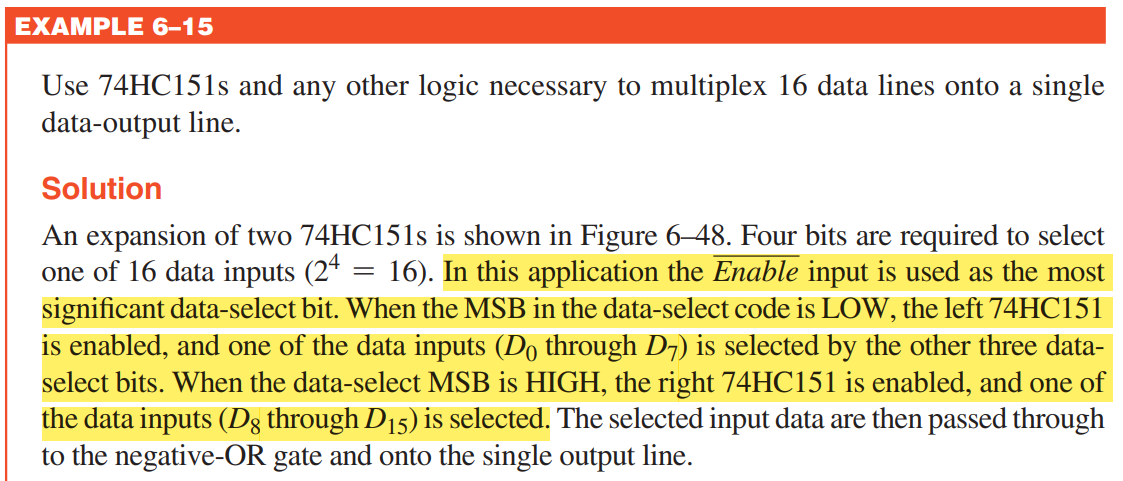
A close up of black text

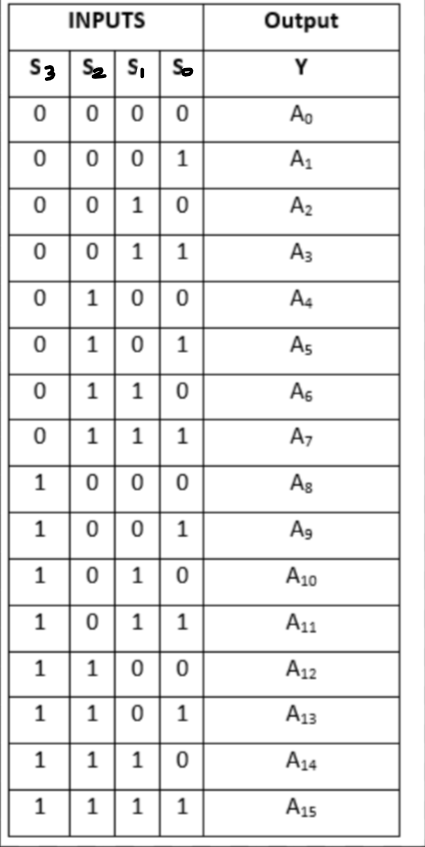
Description automatically generated

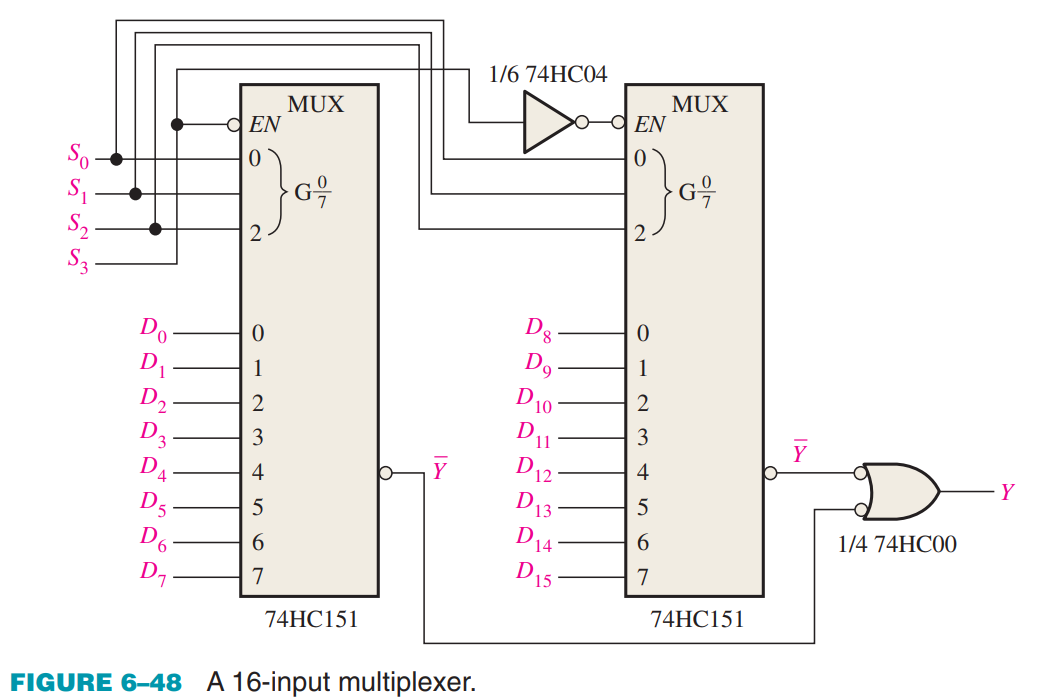
A diagram of a circuit

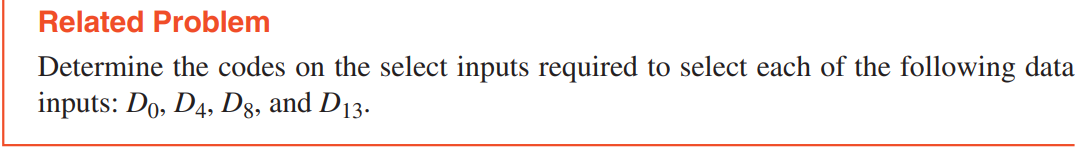
Description automatically generated

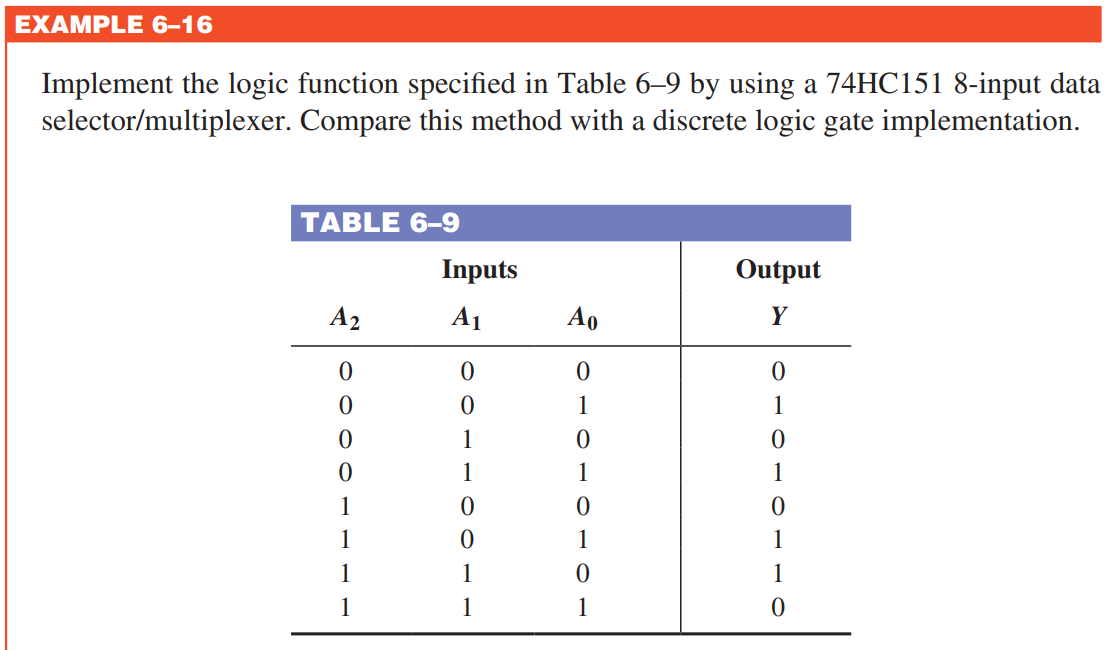




Look at the S3, it is working as a Enable pin in the IC, if it is **LOW**, the LSB side (first IC) will work, if it is **HIGH**, the MSB side (Second IC) will work.







A close up of text

Description automatically generated

A diagram of a circuit

Description automatically generatedLook at the given table, the data (values) for data inputs (D0, D1, D2 etc) is given, provide the input data to data pins so that when a data pin is selected, the provided data input is acquired at the output.

A white background with black text

Description automatically generated