



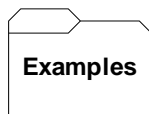
OP Code	I₂I₂	B₁D₁	D₁D₁
----------------	-----------------------------------	-----------------------------------	-----------------------------------

The And Immediate instruction performs a logical bit by bit “and” between a byte in memory and an immediate constant. Operand 1, the target, is a byte in memory and Operand 2, the source, specifies the immediate constant. The byte in memory is “and-ed” internally with the immediate constant and contains the final result. The immediate constant is not changed. The table below shows the results of “anding” two bits together.

Bit 1	Bit 2	Bit 1 and Bit 2
0	0	0
0	1	0
1	0	0
1	1	1

This instruction sets the condition code as follows:

- 0 if all target bits are set to 0. Test this condition with **BZ** or **BNZ**.
- 1 if any target bit is set to 1. Test this condition with **BM** or **BNM**.



Some Unrelated And immediates

```

BYTE1 DC X'00'
BYTE2 DC X'FF'
BYTE3 DC X'C3'

```

```

NI BYTE1,X'12'          BYTE1 = X'00'          Condition Code = 0
NI BYTE1,X'FF'          BYTE1 = X'00'          Condition Code = 0
NI BYTE1,C'A'           BYTE1 = X'00'          Condition Code = 0
NI BYTE1,B'11110000'    BYTE1 = X'00'          Condition Code = 0
NI BYTE2,X'12'          BYTE2 = X'12'          Condition Code = 1
NI BYTE2,X'FF'          BYTE2 = X'FF'          Condition Code = 1
NI BYTE2,C'A'           BYTE2 = X'C1'          Condition Code = 1
NI BYTE2,B'11110000'    BYTE2 = X'F0'          Condition Code = 1
NI BYTE3,X'12'          BYTE3 = X'02'          Condition Code = 1
NI BYTE3,X'FF'          BYTE3 = X'C3'          Condition Code = 1
NI BYTE3,C'A'           BYTE3 = X'C1'          Condition Code = 1
NI BYTE3,B'11110000'    BYTE3 = X'C0'          Condition Code = 1

```