Value parameters are treated like local variables and, like these variables, the earlier i parameter is declared the higher address it has in memory. However, unlike variables, the lowest income highest) address is fixed and this is fixed at (IX+2) e.g.

PROCEDURE test(i: REAL; j: INTEGER);

then:

j (allocated first) is at IX+2 and IX+3. i is at IX+4, IX+5, IX+6, and IX+7.

<u>Variable</u> parameters are treated just like value parameters except that they are always allocated 2 bytes and these 2 bytes contain the address of the variable e.g.

PROCEDURE test(i: INTEGER; VAR x: REAL);

then:

the reference to x is placed at IX+2 and IX+3; these locations contain the address where x is stored. The value of x is at IX+4 and IX+3.

Returned values of functions are placed above the first parameter in memory e.g.

FUNCTION testu : INTEGER) : REAL;

then i is at IX+2 and IX+3 and space is reserved for the returned value at IX+4, IX-5, IX+5 and IX+7.