

3. Give an example of a non-converting type cast (underlying bit pattern does not change).

Give an example of a converting type cast (underlying bit pattern does change).

4. For the following Oberon statements, indicate the correct error message using the list of given error messages below (if there is no error, select option A):

Possible Error Messages:

- A - No error
- B - BOOLEAN required for conditional test
- C - Argument not assignable to value parameter
- D - Argument not equivalent to REF parameter
- E - Non-addressable argument passed to REF parameter
- F - Incompatible type to binary operator
- G - Incompatible type to unary operator
- H - Left hand side of assignment statement is not assignable (not a modifiable L-value)
- I - Array index out of bounds

```
CONST t = 3;
TYPE foo = INTEGER;
TYPE bar = FLOAT;
TYPE baz = BOOLEAN;
VAR w : ARRAY 5 OF foo;
VAR x : POINTER TO foo;
VAR y : bar;
VAR z : baz;
FUNCTION p(a : INTEGER; REF b : FLOAT) : foo;
    RETURN 0;
END p;
```

```
BEGIN
    y := p(w[4], y); _____
    x^ := p( p( t, y ), 4.20 ); _____
    y^ := w[t]; _____
    p(x^, x^); _____
END.
```

What question would you most like to see on the Midterm?