
POU: FindShelfByPartID

```
1  FUNCTION FindShelfByPartID : INT
2  VAR_INPUT
3      partIDToFind : STRING ( 23 ) ;          (* Part ID to search for *)
4  END_VAR
5  VAR_INPUT
6      shelfArray : ARRAY [ 1 .. 42 ] OF ShelfSpace ;  (* Array of shelf spaces *)
7  END_VAR
8  VAR
9      i : INT ;
10 END_VAR
11
```

```
1  FOR i := 1 TO 42 DO
2      IF shelfArray [ i ] . partID = partIDToFind THEN
3          FindShelfByPartID := i ;
4          RETURN ;  (* Return shelf number if partID is found *)
5      END_IF ;
6  END_FOR ;
7  FindShelfByPartID := 0 ;
8  RETURN ;  (* Return 0 if partID is not found in any shelf *)
9
```