```
1
       FUNCTION GetNextFreeSpace : INT
2
3
          shelfArray : ARRAY [ 1 .. 42 ] OF ShelfSpace; (* Array of shelf spaces *)
4
       END_VAR
5
      VAR
6
         i : INT;
7
       END_VAR
8
1
     FOR i := 1 TO 42 DO
2
              IF shelfArray[i].partID = '00' THEN
3
                  GetNextFreeSpace := i;
4
                  RETURN; (* Return index of the first empty shelf *)
5
              END IF;
6
          END FOR;
           GetNextFreeSpace := 0;
8
          RETURN; (* Return -1 if no free space is available *)
9
10
```