6 Two arrays `Data` and `Pointer` are accessed by the procedure `Place()`

`Data` and `Pointer` are both global arrays of type `INTEGER`

The contents of these two arrays are shown:

	Data
1	1018
2	1007
3	1010
4	1056
5	1092
6	1062
7	1034
8	0
9	0
10	0

	Pointer
1	7
2	3
3	1
4	6
5	-1
6	5
7	4
8	9
9	10
10	-1

Study the pseudocode:

```
PROCEDURE Place(Value : INTEGER, Start : INTEGER, Unused : INTEGER)
   DECLARE New, Current, Last : INTEGER
   CONSTANT NullPointer = -1
   New ← Unused
   Last ← NullPointer
   Current ← Start
   WHILE Current <> NullPointer AND Data[Current] < Value
      Last ← Current
      Current ← Pointer[Current]
   ENDWHILE
   Pointer[New] ← Pointer[Last]
   Pointer[Last] ← New
   Data[New] ← Value
ENDPROCEDURE
```

(a) (i) Complete the trace table below by dry running the procedure `Place()` when it is called by the statement:

```
CALL Place(1043, 2, 8)
```

Value	Start	Unused	New	Last	Current

[4]

(b) The operation carried out by procedure `Place()` together with the arrays form part of the implementation of an Abstract Data Type (ADT).

Identify the ADT and state the operation carried out by procedure `Place()`

.....

.....

.....

.... [2]