HW2 Nabin Shrestha

Q3.

a.

The blocks must not overlap in disjointness property
for example:
list = [1, 2, 1] , e = 1

b. A partition must cover the entire domain in
completeness property
for example:
list = [1, 3] , e = 2

c. we can separate the characteristic into
partitions.

i. check whether e is in the list : true/ false
ii. check whether e is first in the list: true/ false
iii. check whether e is last in the list: true/ false

Q4.

a.

here are 4 testable units (the constructors and the three methods). So, the input variable is object x parameter in push() and state of the Generic stack.

b. Characteristics of input variable are:
- check whether the stack is empty : true / false
- check the size of the stack : 0, 1 or >1
- check whether the stack contains null entries : true/false
- check whether x is null : true / false

d.

i. check whether the stack is empty :
- true, [ ]
- false, ["ab"], ["cd", "ef"]

ii check the size of the stack :
- 0 , [ ]
- 1 , ["ab"]
- >1, ["ab", "cd"]

iii) check whether the stack contains null entries:
   - True, [null]
   - false, ["ab", "cd"]

iv) check whether x is null
   - true, (x=null)
   - false, (x = "ab", "cd")