

Software Testing – Practice

[1] Black Box Testing Techniques

Class: SE113.O21.CNCL.1

Name: Tran Duy Thai

ID: 21522582

We know that:

- The type of conference room is determined by the number of attendees:
 - The number of attendees ranges from 1 to 100:
 - [1-30] attendees → Small room
 - (30-50] attendees → Medium room
 - (50-100] attendees → Large room
- The type of booking duration is determined by the hours:
 - The booking duration ranges from 1 to 8 hours:
 - [1-4] hours → Half a day
 - (4-8] hours → Whole day

Where:

- Input:
 - Number of attendees (Integer)
 - Hours (Integer)
- Output:
 - Conference room type
 - Booking duration type

Equivalence Partitioning:

- Set valid and invalid equivalence classes:

Input condition	Valid equivalence classes	Invalid equivalence classes
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		less												
		9 or more				x	x	x						
		abc							x					

Boundary Value Analysis:

- Test at the change of input and output conditions, and at the edges of valid and invalid equivalence classes, or outside of them

Change of conditions				Equivalence class edges and outside		
Number of attendees	Hours	Conference room type	Booking duration type	Number of attendees	Hours	Case
1	1	Small room	Half a day	1	1	Valid min value
30	4	Small room	Half a day	100	8	Valid max value
31	5	Medium room	Whole day	0	1	Invalid
50	8	Medium room	Whole day	101	1	Invalid
51	8	Large room	Whole day	abc	1	Invalid
100	8	Large room	Whole day	1	0	Invalid
				1	9	Invalid
				1	abc	Invalid

