1.1. Build equivalence classes (partitions) based on given information

Invalid	Valid for 50\$		Valid for 500\$		Valid for >500\$			Invalid			
<5\$	≥ 5\$	0%	<50\$	≥50\$	1%	<500\$	≥500\$	3%	≤1000\$	>1000\$	

1.2. Stand Out boundary values

Invalid	Valid for 50\$	Valid for 500\$	Valid for >500\$	Invalid
4\$	5\$ 49\$	50\$ 4995	500\$ 1000\$	1001\$

2.1. Build decision table based on given information.

Inputs	C1	C2	C3	C4	C5	C6	C7	C8
Pensioner	Y	Y	Y	Y	N	N	N	N
over 60								
Student	Y	Y	N	N	Y	Y	N	N
Bought travel	Y	N	Y	N	Y	N	Y	N
card during								
last 6 months								
in a row								
Outputs								
Discounts (%)	25	20	15	10	25	20	5	0
Error*	+	+						

Error means that the discounts for Students and Pensioners don't sum up.

Rationalized table:

Inputs	C1	C2	C3	C4	C7	C8
Pensioner	Y/N	Y/N	Y	Y	N	N
over 60						
Student	Y	Y	N	N	N	N
Bought travel card during last 6 months in a row	Y	N	Y	N	Y	N
Discounts (%)	25	20	15	10	5	0
Error*	+	+				

Test cases:

#	Condition	Outcome
1	Pensioner, has bought a travel card during last 6 months in a row	15% of discount
2	Pensioner, hasn't bought a travel card during last 6 months in a row	10% of discount
3	Student, has bought a travel card during last 6 months in a row	25% of discount
4	Student, hasn't bought a travel card during last 6 months in a row	20% of discount
5	A person (not a pensioner and not a student), has bought a travel card during last 6 months in a row	5% of discount
6	A person (not a pensioner and not a student), hasn't bought a travel card during last 6 months in a row	0% of discount

3.1. State transition

