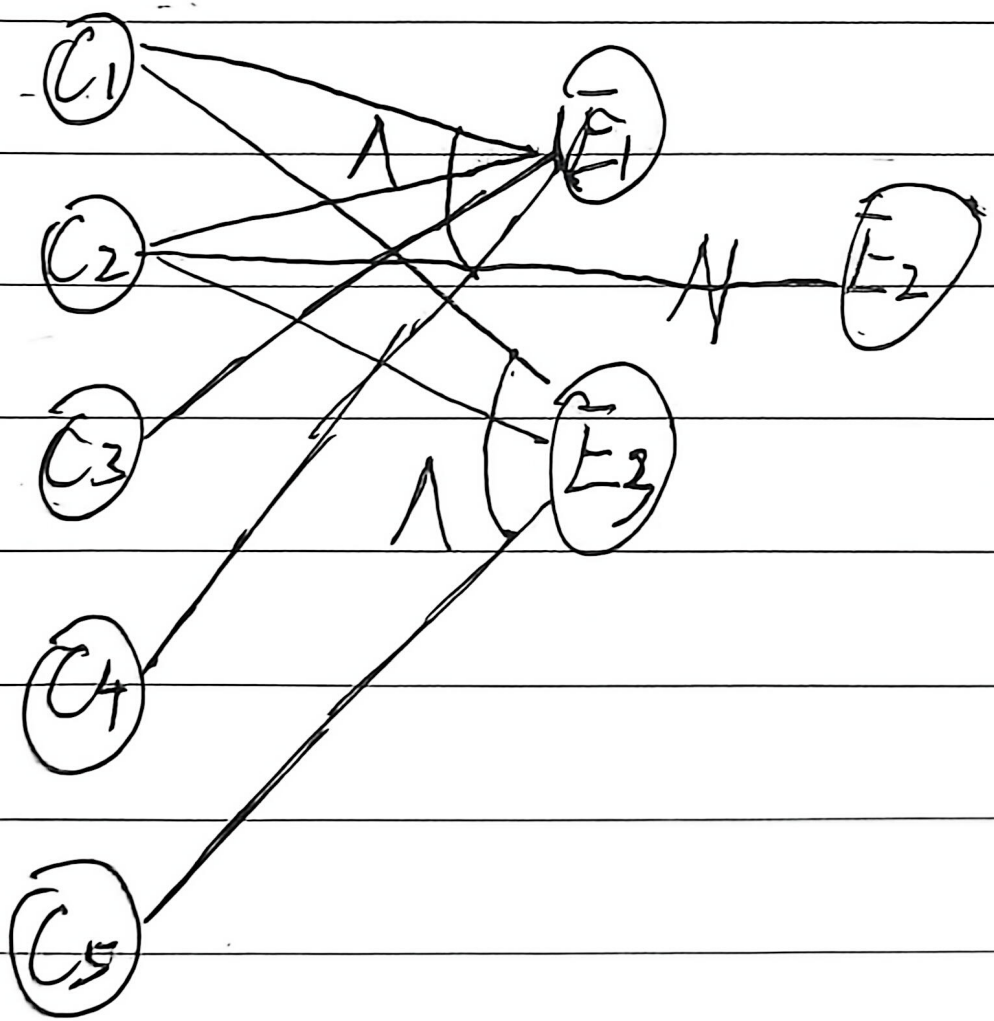

C_1 = Student

C_2 = Amount in valid range.

C_3 = Time in valid period

C_4 = has 3% dis

C_5 = has 11% dis.

E_1 = Pay 75%

E_2 = Error.

E_3 = Pay 89%.

E_4 = Pay 100%.

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Decision Table.

	C_1(Student)	C_2(Amount valid)	C_3	C_4	C_5	Effect
1	Y	*	Y	Y	Y	-	E_1(70%)
2	-	N	-	-	-	E_2(Error)
3	Y	Y	N	Y	-	E_3(89%)
4	Y	Y	-	N	Y	E_3(89%)
5	Y	Y	-	N	N	E_4(100%)
6	N	Y	-	-	-	E_4(100%)

Equivalence Partitioning Table.

Conditions	Valid EC	ID	Invalid EC	ID
Students identity	C_1=Y	VE1	C_1=N	IE1
Amount	0 ≤ Amount ≤ 10000	VE2	Amount < 0	IE2
			Amount > 10000	IE3
Time	Time in discount	VE3	Time out	IE4
30% coupon	has 30%	VE4	Do not have	IE5
11% coupon	has 11%	VE5	Do not have	IE6

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Boundary Value Analysis.

Conditions.	EC	BVs.
Amount.	VE2	9.99, 10, ~~10.0~~ 10000, 10000.01.
Time	VE3.	13:59, 14:00, 17:00, 17:01.
Student identity	VE1	Student = YES / NO.
30% coupon	VE4	Has / Not has.
11% coupon	VE5	Has / Not has.

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Test Cases. Time, 30%, 11%,

No	Input [Student, Amount, ...]	Expect output	Covered EC/BV
TC1	[Y, 10.00, 14:00, Y, N]	Pay = 7.00	VE1, VE2, VE3, VE4.
TC2	[Y, 9.99, 14:00, Y, N]	Error Invalid	IE2.
TC3	[Y, 10000, 14:00, Y, N]	Pay = 7000.	VE1, VE2, VE3, VE4.
TC4	[Y, 10000.01, 14:00, Y, N]	Error Invalid	IE3.
TC5	[Y, 200, 17:01, Y, N]	Pay = 178	VE1, VE1, IE4, VE4
TC6	[Y, 200, 15:00, N, Y]	Pay = 178	VE1, VE2, VE3, VE5.
TC7	[Y, 200, 15:00, N, N]	Pay = 200	VE1, VE2, VE3
TC8	[N, 200, 15:00, Y, Y]	Pay = 200.	IE1, VE2, VE3.
TC9	[Y, 200, 13:59, Y, N]	Pay = 178	VE1, VE2, IE4, VE
TC10	[N, 9.99, 15:00, N, N]	Error Invalid.	IE1, IE2.
TC11	[Y, 500, 16:59, N, Y]	Pay = 445.	VE1, VE2, VE3, VE5.