Using the technique of equivale	nce classes, what t	tests need to b	se written to cov	er the conditio	ms 100%?																														
,						following rules:																													
	The employee well 1) Employees who 2) For employees vi 3) Employees who discount if BMI is b do not join a smoki	who complete a h participate in an	ts or less of alcoho Health Risk Assess nual company hea	I per week will re ment, the payme th screenings: wi	ceive \$28 off their int is reduced by \$2 if receive a \$50 dis	ollyment. 3. count for having a	a body mass inde	x (BMI) of 25.5 or I	r less, and \$19	9																									
	discount if BMI is b do not join a smoki	selow 30. Non-am ing cessation cou	nokers receive an a urse pay an additio	edditional \$45 ret nal \$75.	ate. Smokers who	join a smoking on	assation course re	sceive a \$24 rebate	te. Smokers w	who																									
Conditions	Result	Test case 1	Test case 2	Test case 3	Test case 4	Test case 5	Test case 6	Test case 7	Test case	e 8 Test case 9	Test case 10	Test case 11	Test case 12	Test case 13	Test case 14	Test case 15	Test case 16	Test case 17	Test case 18	Test case 19 Tes	t case 20	Test case 21	Test case 22 Test case	23 Test case 24	Test case 25	Test case 26	Test case 27	Test case 28	Test case 29	Test case 30	Test case 31	Test case 32	Test case 33 Test case	34 Test case	15 Test case 36
Alcohol use <= 17 units per week Completion of the Health Risk	Yes/No	Yes	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes No	N	No.	No No	No	No	Yes	Yes	Yes	No Y	ies N	No 1	No	No No	No	Yes
Assessment questionnoire Smoker	Yes/No Yes/No	Yes	Yes	No Yes	No No	No No	No No	No Yes	No No	No No	No No	Yes	Yes Yes	Y	Yes	Yes No	No Yes	No Yes	No Yes	No I	No Yes	No Ni Ves V	lo Y	Yes 1	No Yes	Yes Yes	Yes	No Yee							
BM <= 25.5 25.5 co IMT < 10	Yes/No Yes/No	Yes	Yes	Yes	Yes	No Yes	No No	Yes	Yes	No Yee	No No	Yes	No Yes	No.	No Yes	No No	No No	No No	No Yes	Yes Yes	N	No Yes	No No	No.	No No	No Yes	No I	No No	Yes No	lo N	No f	No Yes	No No Yes	Yes	Yes
Smoking cessation course	Yes/No	Yes	Yes	Yes	No	No	No	Yes	No	No	No	No	No	No	Yes	Yes	No	Yes	No	No No	N	No.	No Yes	Yes	No	Yes	Yes	No	No N	lo Y	Yes	No	No No	No	No
Discount \$50		х	х	×	x	v	v	×	×	v		x	v	v		_	_			x x			v						x					х	х
Discount \$24 Discount \$19		x	X	×	×	×		X	×	×		×	×		X	х		x	x	x x	×	·	×	×		x	x		x x		K K	×	¥	×	×
Extra payment \$75		· ·	^	_	_	^			v	-		,	v	v	· ·	·	×		x	×		•			×			×	x x			×	x x	×	x
Conditions Allowfor are or 27 units par work Completions of the final final Completions of the final final Completions of the final final Conditions East Condition East Co		X 144	X 116	6	111	65		121	1	143 0	7.	X 16	X 116	X 97	x	x 7	X M .2	×	x A	x x	138	K 88	X es	49 1		71	42	-47		.28	K 66	.46	X X	.33	17 22
		Fynecled				Fynected																													
Test case 1	Test data 1. 11 units of alcohol per week 2. Quastiornaire completed 3. Smoker 4. BMI = 22.3 5. Course	Result Employee gets		Test case 19	Test data 1.11 units of alcohol per week alcohol per week or service or peleted 3. Smoker completed 4. BMI = 22.3 5. Not a course perticipant 1.21 units of alcohol per week 2. Service or	Result Employee gets	-																												
	2. Questionnaire completed	a discount 144\$			2. Questionnaire completed	a discount: 455																													
	3. Smoker 4. BMI = 22.3 5. Course				3. Smoker 4. BMI = 22.3 5. Not a course																														
Test case 2	5. Course participant 1. 21 units of alcohol per week 2. Questionnaire completed 3. Smoker 4. BMI = 22.3 5. Course	Employee gets		Test case 20	participant 1. 21 units of	Employee gets																													
	2. Questionnaire completed	116\$			Questionnaire completed	138\$																													
	3. Smoker 4. BMI = 22.3 5. Course				3. HeSmoker 4. BMI = 22.3 5. Not a course																														
Test case 3	5. Course participant 1. 21 units of alcohol per week 2. Questionnaire incomplete 3. Smoker 4. BMI = 22.3 5. Course	Employee gets a discount 935		Test case 21	5. Not a course participent 1. 21 units of alcohol per week 2. Questionnaire completed 3. HeSmoker 4. BMI = 27.3 5. Not a course participent	Employee gets a discount 885																													
	Questionnaire incomplete Smoker				Questionnaire completed Machine																														
	4. BMI = 22.3 5. Course participant				4. BMI = 27.3 5. Not a course																														
Test case 4	1. 21 units of strobal ner week	Employee gets a discount:		Test case 22	1. 21 units of alcohol per week 2. Questionnaire completed 3. HeSmoker 4. BMI = 32.3 5. Not a course perticipent	Employee gets a discount: 695																													
	1. 21 units of alcohol per week 2. Questionnaire incomplete 3. HeSmoker 4. BMI = 22.3 5. Not a course	115\$			2. Questionnaire completed 3. HaSmoker																														
	4. BMI = 22.3 5. Not a course				4. BMI = 32.3 5. Not a course																														
Test case 5	participant 1. 21 units of sécohol per week 2. Questionnaire incomplete 3. HeSmoker 4. BMI = 27.3 5. Not a course participant	Employee gets a discount: 65\$		Test case 23	participant 1. 21 units of atomol per week 2. Questionnaire incomplete 3. Smoker 4. BMI = 27.3 5. Course	Employee gets a discount: 43\$																													
	Questionnaire incomplete HeSmoker				Questionnaire incomplete Smoker																														
	4. BMI = 27.3 5. Not a course participant				4. BMI = 27.3 5. Course perticipent																														
Test case 6	Not a course participant 1.21 units of alcohol per week 2. Questionnaire incomplete 3. HeSmoker 4. BMI = 32.3 5. Not a course neatinger	Employee gets a discount: 46\$		Test case 24	4. BMI = 27.3 5. Course participant 1. 21 units of alcohol per week 2. Questionnaire incomplete 3. Smoker 4. BMI = 32.3 5. Course participant 1. 21 units of alcohol per week 2. Questionnaire incomplete 3. Smoker 4. BMI = 32.3 5. Smoker 4. BMI = 32.3 5. Smoker 4. BMI = 32.3	Employee gets a discount: 24\$																													
	incomplete 3. HeSmoker				incomplete 3. Smoker																														
	4. BMI = 32.3 5. Not a course participant				4. BMI = 32.3 5. Course participant																														
Test case 7	5. Not a course participant 1. 11 units of alcohol per week 2. Questionnaire incomplete 3. Smoker 4. BMI = 22.3 5. Course	Employee gets a discount: 1215		Test case 25	21 units of alcohol per week Questionnaire	Employee must pay extra: 75\$																													
	incomplete 3. Smoker 4. RMI = 22.3	'			incomplete 3. Smoker 4. RMI = 32.3																														
	5. Course participant				5. Not a course participant																														
Test case 8	1. 11 units of alcohol per week 2. Questionnaire	a discount: 143\$		Test case 26	1. 11 units of alcohol per week 2. Questionnaire	a discount: 71\$																													
	3. HeSmoker 4. BMI = 22.3				3. Smoker 4. BMI = 27.3																														
Test case 9	participant 1. 11 units of	Employee gets		Test case 27	participant 1. 11 units of	Employee gets																													
	4. 88th = 22.3 County County 1.11 uses 1.11 uses 1.12 over 1.12 over 1.13 over 1.12 over 1.13 over 1.14 over 1.15 over 1	a discount: 935			2. Questionnaire incomplete	a discount: 525																													
	3. HeSmoker 4. BMI = 27.3 5. Not a course				3. Smoker 4. BMI = 32.3 5. Course																														
Test case 10	1. 11 units of alcohol per week	Employee gets a discount: 74\$		Test case 28	1. 11 units of alcohol per week	Employee must pey extra: 47\$																													
	Questionnaire incomplete HeSmoker				Questionnaire incomplete Smoker																														
	4. BMI = 32.3 5. Not a course participant				4. BMI = 32.3 5. Not a course perticipent																														
Test case 11	1. 11 units of alcohol per week	Employee gets a discount:		Test case 29	1. 21 units of alcohol per week	Employee must pay extra: 6\$																													
	completed 3. HeSmoker	1003			incomplete 3. Smoker																														
	5. Not a course participant				5. Not a course participant																														
Test case 12	5. Not a course participant 1. 11 units of alcohol per week 2. Quastionnaire completed 3. HeSmoker 4. BMI = 27.3 5. Not a course participant	a discount: 116\$		rest case 30	Smokers Net a course personner Neta	pay extra: 28\$																													
	3. HeSmoker 4. BMI = 27.3				3. Smoker 4. BMI = 27.3																														
Test case 13	participant 1. 11 units of	Employee gets a discount: 97\$	1	Test case 31	perticipent 1, 21 units of	Employee gets	1																												
	alcohol per week 2. Questionnaire completed	a discount: 97\$			atcohol per week 2. Questionnaire completed	a discount: 66\$																													
	participant 1. 11 units of alcohol per weak 2. Quastionnaire completed 3. HeSmoker 4. BMI = \$2.3 5. Not a course				3. Smoker 4. BMI = 27.3 5. Course																														
Test case 14	1. 11 units of	Employee gets a discount: 94\$		Test case 32	participant 1. 21 units of	Employee must																													
	5. Not a course participant 1. 11 units of atcorbol per week 2. Questionnaire completed 3. Smoker 4. BMI = 27.3 5. Course				Questionnaire incomplete Smoker																														
	4. BMI = 27.3 5. Course				4. BMI = 27.3 5. Not a course																														
Test case 15	5. Course participant 1. 11 units of sloohol per week 2. Questionnaire completed 3. Smoker 4. BMI = 32.3 5. Course matricipant	Employee gets a discount: 75\$		Test case 33	1. 21 units of alcohol per week	Employee must pay extra: 52\$																													
	2. Questionnaire completed 3. Smoker				2. Questionnaire completed 3. Smoker																														
	5. Course participant				4. BMI = 27.3 5. Course participant 1. 21 units of atohic per week 2. Questionnaire incomplete 3. Smoker 4. BMI = 27.3 5. Not a course perticipant 1. 21 units of atohic per week 2. Questionnaire completed 3. Smoker 4. BMI = 32.3 5. Not a course perticipant																														
Test case 16	participant 1. 11 units of sicohol per week 2. Questionnaire completed 3. Smoker 4. BMI = 32.3 5. Not a course	Employee must pay extra: 24\$		Test case 34	21 units of alcohol per week Questionnaire	timployee must pay extra: 33\$																													
	3. Smoker 4. BMI = 32.3				3. Smoker 4. BMI = 27.3																														
Test case 17	5. Not a course participant	Employee ~~	-	Test care 15	5. Not a course participant	Employee nem	-																												
	alcohol per week 2. Questionnaire	Employee gets a discount: 47\$			alcohol per week 2. Questionnaire	a discount: 17\$																													
	5. Not a course participant 1.21 units of sicohol per week 2. Questionnaire completed 3. Smoker 4. BMI = 32.3 5. Course participant				3. Smoker 4. BMI = 22.3 5. Not a																														
Test case 18	participant 1. 11 units of	Employee must		Test case 36	2. Quasisonnaire completed 3. Simoler 4. BMI = 32.3 5. Not a course participant 1. 21 units of a considered 2. Quasisonnaire	Employee gets																													
	participant 1. 11 units of sécohol per week 2. Questionnaire compléted 3. Smoker 4. BMI = 27.3 5. Not a course	pwy extra: 55			1. 11 units of alcohol per week 2. Questionnaire incomplete 3. Smoker 4. BMI = 22.3 5. Not a course	a discount: 22\$																													
	4. BMI = 27.3 5. Not a course				4. BMI = 22.3 5. Not a course																														
	persopent				perticipent		_																												