FML 1-811287455

2023-09-09

#PART A-IMPORTING THE DATASET

#DATASET-

```
my <- read.csv("/Users/sudarshan/Downloads/exams.csv")
my</pre>
```

_					
##		gender	race.ethnicity	parental.level.of.education	lunch
##	1	male	group A	high school	standard
##	2	female	group D	some high school	free/reduced
##	3	male	group E	some college	free/reduced
##	4	male	group B	high school	standard
##	5	male	group E	associate's degree	standard
##	6	female	group D	high school	standard
##	7	female	group A	bachelor's degree	standard
##	8	male	group E	some college	standard
##	9	male	group D	high school	standard
##	10	male	group C	some college	free/reduced
##	11	male	group E	some college	standard
##	12	female	group D	high school	standard
##	13	male	group D	associate's degree	standard
##	14	male	group C	high school	standard
##	15	male	group E	some high school	standard
##	16	male	group E	associate's degree	free/reduced
##	17	male	group B	high school	standard
##	18	female	group C	associate's degree	standard
##	19	female	group C	associate's degree	free/reduced
##	20	male	group C	some college	free/reduced
##	21	female	group C	associate's degree	standard
##	22	male	group C	associate's degree	standard
##	23	male	group B	some college	standard
##	24	female	group B	_	free/reduced
##	_	male	group E	some high school	
##	26	male	group C	high school	free/reduced
##	27	female	group C	some high school	standard
##	28	male	group E	high school	standard
##	29	female	group B	high school	standard
##	30	female	group A	some high school	free/reduced
##	31	male	group B	some college	standard
##	32	male	group A	bachelor's degree	
##	33	male	group A	some high school	free/reduced

## 34	female	group B	associate's degree	standard
## 35	female	group B	bachelor's degree	standard
## 36	female	group A	bachelor's degree	standard
## 37	female		-	standard
		group C	some college	
## 38	male	group B		free/reduced
## 39	female	group B	some college	free/reduced
## 40	male	group E	associate's degree	standard
## 41	female	group B	master's degree	free/reduced
## 42	male	group D	high school	standard
## 43	male	group E	high school	standard
## 44	female	group C	master's degree	standard
## 45	male	group E	high school	standard
## 46	male			
		group C	bachelor's degree	standard
## 47	male	group C	associate's degree	
## 48	female	group E	some high school	standard
## 49	female	group D	high school	standard
## 50	male	group C	associate's degree	free/reduced
## 51	male	group D	high school	standard
## 52	female	group C	some high school	free/reduced
## 53	female	group C	associate's degree	standard
## 54	female			free/reduced
		group C		
## 55	male	group D		free/reduced
## 56	female	group C	some college	standard
## 57	female	group C	bachelor's degree	standard
## 58	male	group D	associate's degree	standard
## 59	female	group D	some college	free/reduced
## 60	male	group E	some high school	standard
## 61	male	group D	some college	free/reduced
## 62	female	group E	some high school	standard
## 63	male	group E	some high school	standard
## 64				
	male	group A	bachelor's degree	standard
## 65	male	group D	master's degree	standard
## 66	female	group C	some high school	
## 67	male	group C	high school	standard
## 68	female	group D	some high school	free/reduced
## 69	male	group B	high school	standard
## 70	female	group C	high school	standard
## 71	female	group C	associate's degree	standard
## 72	male	group C	associate's degree	standard
	female		-	
## 73		group B	some college	standard
## 74	female	group C	some high school	standard
## 75	male	group B	master's degree	
## 76	female	group C	high school	standard
## 77	female	group C	some college	standard
## 78	female	group D	high school	free/reduced
## 79	male	group C	associate's degree	standard
## 80	male	group D	some high school	standard
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	mare	group D	Some firgh School	Standard

##	81	female	group	В	bachelor's degree	standard
##	82	female	group	D	some high school	free/reduced
##	83	female	group	С	associate's degree	free/reduced
##	84	male	group	В	high school	standard
##	85	female	group	В	associate's degree	free/reduced
##	86	female	group	С	some high school	standard
##	87	female	group			free/reduced
##	88	male	group		some college	standard
	89	female	group		some college	standard
	90	male	group		high school	standard
	91	male	group		<u> </u>	free/reduced
	92	male	group		some high school	standard
	93	female	group		master's degree	standard
	94	male	group		bachelor's degree	standard
	95	male	group		master's degree	
	96	female	group		high school	standard
	97	female	group		associate's degree	standard
	98	male	group		•	free/reduced
	99	male	group		some college	standard
	100	male	_		associate's degree	standard
	101	male	group		-	free/reduced
	101	male	group			standard
			group		some college	
	103	male	group		high school	standard
		male	group		high school	standard
##		female	group		some college	standard
##		female	group		bachelor's degree	standard
	107	male	group		high school	standard
	108	male	group		bachelor's degree	standard
	109	male	group		associate's degree	standard
	110	male	group			free/reduced
	111	female	group		some college	standard
	112	female	group		some high school	
	113	female	group		master's degree	
	114	male	group		bachelor's degree	
	115	male	group		high school	
	116	male	group		associate's degree	
	117	female	group		_	free/reduced
	118	male	group		associate's degree	
	119	male	group		bachelor's degree	
	120	female	group		some high school	
##	121	female	group	С	high school	
	122	female	group		bachelor's degree	
	123	female	group		bachelor's degree	standard
	124	female	group		some high school	
	125	female	group		associate's degree	standard
##	126	male	group	С	master's degree	standard
##	127	male	group	D	associate's degree	standard

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## 128	male	group	С	some high school	standard
## 129	male	group	E	some college	standard
## 130	female	group	D	associate's degree	free/reduced
## 131	female	group		associate's degree	free/reduced
## 132	male	group		high school	standard
## 133	male	group		some college	standard
## 134	male			associate's degree	standard
	male	group			standard
		group		some college	
## 136	male	group		some high school	
## 137	male	group		some college	standard
## 138	female	group	В	associate's degree	standard
## 139	male	group	D	some college	free/reduced
## 140	female	group	С	some high school	free/reduced
## 141	male	group	В	associate's degree	free/reduced
## 142	female	group	D	some college	free/reduced
## 143	female	group	D	bachelor's degree	standard
## 144	female	group	В	associate's degree	standard
## 145	male	group		master's degree	standard
## 146	female	group			free/reduced
## 147	female	group		some high school	standard
## 148	male	group		some college	standard
## 149	female	group		bachelor's degree	standard
## 150	male			associate's degree	
		group		-	
## 151	female	group		some college	standard
## 152	female	group			free/reduced
## 153	female	group		associate's degree	standard
## 154	male	group		bachelor's degree	standard
## 155	female	group	С	associate's degree	free/reduced
## 156	female	group	С	some college	standard
## 157	male	group	В	high school	free/reduced
## 158	female	group	E	associate's degree	free/reduced
## 159	female	group	D	associate's degree	free/reduced
## 160	male	group	E	some high school	free/reduced
## 161	female	group	D	associate's degree	standard
## 162	male	group	D	associate's degree	free/reduced
## 163	female	group		bachelor's degree	standard
## 164	female	group		some high school	standard
## 165	male	group		bachelor's degree	standard
## 166	female	group		bachelor's degree	standard
## 167	male	group		bachelor's degree	standard
## 168	female			some high school	standard
		group		-	
## 169	female	group		master's degree	standard
## 170	female	group		high school	standard
## 171	female	group		high school	standard
## 172	female	group		some college	standard
## 173	female	group		some college	
## 174	male	group	A	some high school	free/reduced

##	175	male	group	ъ	some college	standard
	176	female	group		some college	
	177				<u> </u>	
		female	group		bachelor's degree	standard
	178	male	group		some high school	
	179	female	group		some college	
	180	male	group		high school	standard
	181	female	group		some high school	standard
	182	female	group	С	some college	standard
##	183	female	group	E	bachelor's degree	standard
##	184	female	group	С	associate's degree	standard
##	185	female	group	С	associate's degree	standard
##	186	female	group	С	master's degree	standard
##	187	male	group	В	high school	standard
##	188	male	group	E	some high school	free/reduced
##	189	male	group	D	high school	standard
##	190	male	group	В	some high school	free/reduced
##	191	male	group	В	some high school	standard
##	192	female	group		some high school	standard
##	193	male	group		some high school	free/reduced
##	194	female	group		associate's degree	standard
	195	female	group		bachelor's degree	standard
	196	female	group		some high school	
	197	male	group		bachelor's degree	standard
	198	male	group		master's degree	
	199	female			associate's degree	standard
	200	male	group			standard
		female	group		high school	standard
	201		group		associate's degree	
	202	male	group		associate's degree	standard
	203	male	group		some college	standard
	204	female	group		some high school	standard
	205	female	group		associate's degree	
	206	male	group		some high school	standard
	207	female	group	Α	master's degree	standard
	208	male	group	С	some college	standard
##	209	female	group	Α	some college	standard
##	210	female	group	В	associate's degree	standard
##	211	female	group	D	high school	free/reduced
##	212	male	group	D	associate's degree	standard
##	213	male	group	С	some college	standard
##	214	male	group	С	some high school	standard
##	215	female	group	E	some high school	standard
##	216	female	group	В	bachelor's degree	free/reduced
##	217	female	group	В	associate's degree	standard
##	218	female	group		some college	free/reduced
	219	male	group			free/reduced
	220	male	group		associate's degree	standard
	221	male	group		some college	standard
	_		JP			

##	222	male	group	С	associate's degree	standard
##	223	female	group	В	some high school	standard
##	224	female	group	D	master's degree	standard
##	225	male	group	D	bachelor's degree	standard
##	226	male	group		some high school	standard
	227	male	group			free/reduced
	228	female	group		bachelor's degree	
	229	female	_			
			group		high school	standard
	230	male	group		associate's degree	
	231	female	group		high school	standard
##	232	male	group	В	some college	standard
##	233	male	group	С	some college	free/reduced
##	234	male	group	С	some college	standard
##	235	female	group	В	bachelor's degree	standard
##	236	male	group	С	associate's degree	standard
##	237	female	group		bachelor's degree	standard
	238	female	group		high school	standard
	239	male	group		associate's degree	standard
	240	male			<u> </u>	standard
	_		group		bachelor's degree	
	241	female	group		some college	standard
	242	male	group		associate's degree	standard
##	243	male	group	D	some high school	standard
##	244	male	group	С	some college	standard
##	245	male	group	В	some high school	standard
##	246	male	group	С	high school	standard
##	247	female	group	С	some high school	free/reduced
##	248	male	group		some high school	standard
	249	male	group		associate's degree	standard
	250	female	group		associate's degree	
	251	female	group		-	free/reduced
	252		_		-	
		male	group		some high school	standard
	253	male	group		some high school	
	254	female	group		associate's degree	standard
	255	female	group	С	high school	free/reduced
##	256	female	group	D	some high school	standard
##	257	male	group	Α	bachelor's degree	standard
##	258	female	group	E	some high school	standard
##	259	female	group	В	some high school	free/reduced
##	260	female	group	D	associate's degree	free/reduced
	261	female	group		some high school	standard
	262	female	group		high school	standard
	263	male	group		some high school	standard
	264	male	_			standard
			group		associate's degree	
	265	male	group		some high school	standard
	266	male	group		some high school	standard
	267	male	group		associate's degree	standard
##	268	female	group	D	associate's degree	standard

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	269	female	group		some college	standard
##	270	female	group	E	some college	standard
##	271	female	group	С	some high school	standard
##	272	female	group	D	some high school	standard
##	273	male	group	В	high school	standard
##	274	female	group		high school	standard
	275	female	group		some high school	standard
	276	female	group		some high school	standard
	277	female			-	free/reduced
		female	group		_	
	278		group		associate's degree	standard
	279	female	group		high school	standard
	280	male	group	D	high school	standard
##	281	male	group	D	some high school	standard
##	282	male	group	E	associate's degree	standard
##	283	female	group	В	some college	free/reduced
##	284	male	group	D	some college	free/reduced
##	285	male	group	В	bachelor's degree	free/reduced
##	286	male	group		associate's degree	standard
	287	female	group		high school	standard
	288	male	group		some college	standard
	289	female			some high school	
			group		-	
	290	male	group		high school	standard
	291	male	group		associate's degree	standard
##	292	female	group	В	high school	free/reduced
##	293	male	group	D	some college	free/reduced
##	294	female	group	D	high school	free/reduced
##	295	female	group	С	bachelor's degree	free/reduced
##	296	female	group	С	some high school	standard
##	297	male	group	D	some high school	free/reduced
##	298	female	group		bachelor's degree	free/reduced
##	299	male	group		high school	standard
	300	male	group		high school	standard
	301	male			some college	
			group			
	302	male	group		some high school	
	303	male	group		-	free/reduced
	304	male	group		some college	standard
	305	male	group	D	bachelor's degree	standard
##	306	female	group	В	some college	standard
##	307	male	group	С	high school	standard
##	308	male	group	Α	master's degree	standard
##	309	female	group	D	bachelor's degree	standard
##	310	male	group		bachelor's degree	standard
	311	male	group		associate's degree	
	312	female	group		some high school	standard
	313	male	group		associate's degree	
	314	male	group		some college	standard
##	315	male	group	C	associate's degree	standard

	##	316	female	group	С	associate's degree	standard
	##	317	female	group	С	high school	standard
	##	318	male	group	С	some college	standard
	##	319	female	group	D	some high school	free/reduced
	##	320	male	group	D	some college	standard
	##	321	male	group		_	free/reduced
	##	322	female	group		some college	
		323	female	group		high school	standard
		324	male	group		associate's degree	standard
		325	male	group		some high school	standard
		326	female	group		some high school	standard
		327	male	group		associate's degree	
		328	female	group		high school	standard
		329	male	group		some college	
		330	male	group		associate's degree	standard
		331	male	group		some college	standard
		332	female	group		bachelor's degree	
		333	male	group		some college	standard
		334	male	group		some high school	standard
		335	male	group		high school	standard
		336	male	group		associate's degree	standard
		337	male	group		some college	
		338	female	group		-	free/reduced
		339	female	group		associate's degree	standard
		340	female	_		high school	standard
		341	female	group group		some high school	standard
		342	male			some high school	
		343	male	group		associate's degree	
		344	female	group		<u> </u>	standard
			male	group		some high school	standard
		345		group		high school	
		346	male	group		some college	
		347	female	group		master's degree	standard
		348	male female	group		associate's degree	standard
		349	female	group			free/reduced
		350	female	group		some high school	standard
		351		group		some high school	
		352	female	group		master's degree	standard
		353	female	group		bachelor's degree	standard
		354	male	group		bachelor's degree	
		355	female	group		high school	standard
		356	female	group		associate's degree	standard
I		357	female	group			free/reduced
l		358	female	group		bachelor's degree	standard
I		359	male	group		some high school	
		360	male	group		some high school	
l		361	female	group			free/reduced
I	##	362	male	group	C	some college	free/reduced
П							

	##	363	female	group	В	some high school	standard
	##	364	male	group	Α	some college	standard
	##	365	male	group	С	high school	standard
	##	366	female	group	D	associate's degree	standard
	##	367	female	group		associate's degree	free/reduced
	##	368	male	group		some high school	standard
	##	369	female	group		some high school	
		370	female	group		high school	standard
		371	male	group		some high school	standard
		372	female	group		some college	standard
		373	female	group		bachelor's degree	
		374	male	group		some college	
		375	female	group		bachelor's degree	standard
		376	male	group			free/reduced
		377	female			high school	standard
		378	male	group		-	free/reduced
				group		-	
		379	female	group		bachelor's degree	standard
		380	female	group		some college	standard
		381	female	group		high school	standard
		382	female	group		high school	standard
		383	female	group		some high school	standard
		384	male	group	E	associate's degree	standard
	##	385	female	group	D	high school	standard
	##	386	female	group	D	some high school	free/reduced
	##	387	female	group	D	some high school	free/reduced
	##	388	male	group	С	some high school	free/reduced
	##	389	male	group	A	associate's degree	free/reduced
	##	390	male	group	С	bachelor's degree	free/reduced
	##	391	female	group	С	some college	standard
	##	392	female	group	С	high school	free/reduced
	##	393	female	group	С	some college	free/reduced
	##	394	male	group	D	some college	free/reduced
	##	395	male	group	С	some high school	standard
	##	396	female	group	В	some high school	standard
	##	397	female	group	D	associate's degree	standard
		398	female	group		associate's degree	standard
	##	399	male	group		bachelor's degree	standard
		400	female	group		_	free/reduced
		401	male	group		some college	standard
		402	male	group		associate's degree	standard
		403	female	group		some high school	standard
l		404	female	group		some college	standard
		405	female	group		high school	standard
		406	male	group		associate's degree	standard
I		407	male	group		some college	standard
l		407	female	group		associate's degree	standard
l		409	male	group		high school	standard
	77 TT	4 02	шате	group	ч	nigh school	Scalidard
4							

##	410	male	group	D	some college	standard
	411	male	group		high school	standard
	412	female	group		bachelor's degree	
	413	female	group		master's degree	
	414	male	group		some high school	
	415	female	group		some high school	standard
	416	male	group		high school	standard
	417	male	group		-	free/reduced
	418	female	group		some high school	standard
	419	male	group		some college	standard
	420	female	group		some high school	
	421	female	group		bachelor's degree	standard
	422	male	group		some high school	standard
	423	male	group			free/reduced
	424	male	group		associate's degree	standard
	425	male	group		high school	standard
	426	female	group		some college	standard
	427	female	group		master's degree	
	428	male	group		associate's degree	standard
	429	male	group		associate's degree	
	430	male	group		some college	standard
	431	male	group		bachelor's degree	standard
	432	male	group		bachelor's degree	standard
	433	female	group		associate's degree	
	434	female	group		some college	standard
	435	male	group		associate's degree	standard
	436	female	group		some high school	standard
	437	male	group		some high school	standard
	438	male	group		some college	standard
	439	male	group		associate's degree	standard
	440	male	group		associate's degree	
	441	female	group		high school	
	442	female	group		master's degree	
	443	male	group		some high school	
	444	male	group		some college	standard
	445	male	group		bachelor's degree	standard
	446	female	group		high school	standard
	447	male	group		_	free/reduced
	448	male	group		some high school	standard
	449	female	group		<u>-</u>	free/reduced
	450	female	group		some college	standard
	451	female	group		high school	
	452	male	group		high school	
	453	female	group		some high school	
	454	male	group		master's degree	
	455	male	group		associate's degree	standard
	456	male	group		some high school	standard
" "	100	arc	group	_	Jame High Belloot	Samaara

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	457	male	group		some college	standard
	458	female	group		master's degree	standard
	459	male	group		some college	
	460	male	group		some high school	standard
	461	male	group			free/reduced
##	462	male	group	Α	some high school	
##	463	female	group	С	some college	free/reduced
##	464	female	group	С	bachelor's degree	free/reduced
##	465	female	group	D	some high school	free/reduced
##	466	male	group	В	some high school	standard
##	467	female	group	В	some college	free/reduced
##	468	female	group	С	bachelor's degree	standard
##	469	female	group	С	some college	standard
##	470	male	group	С	some college	standard
##	471	female	group	D	some college	standard
##	472	male	group		some college	standard
##	473	female	group		associate's degree	standard
	474	male	group		some college	standard
	475	female	group		some college	standard
	476	male	group		some college	standard
	477	female	group		some high school	
	478	male	group		bachelor's degree	
	479	male	_		-	free/reduced
	480	male	group			
			group		associate's degree	
	481	female	group		some high school	standard
	482	female	group		bachelor's degree	
	483	female	group		master's degree	
	484	female	group			free/reduced
	485	male	group		some college	
	486	male	group		master's degree	
	487	female	group	В	associate's degree	free/reduced
	488	female	group		some high school	standard
##	489	male	group	С	bachelor's degree	standard
##	490	female	group	D	bachelor's degree	standard
##	491	male	group	D	master's degree	standard
##	492	female	group	D	master's degree	standard
##	493	female	group	С	some high school	standard
##	494	female	group	С	some high school	standard
##	495	male	group	D	high school	free/reduced
##	496	male	group	E	some college	standard
##	497	female	group		some high school	free/reduced
##	498	male	group			free/reduced
##	499	male	group		bachelor's degree	standard
	500	male	group		associate's degree	
	501	female	group		_	free/reduced
	502	female	group		associate's degree	standard
	503	male	group		associate's degree	standard
" "	J J J	arc	group	٠	assistance is degree	Scandard

## 504	male	group	D	high school	standard
## 505	female	group	C	high school	free/reduced
## 506	female			.	
		group		associate's degree	standard
## 507	male	group	E	some high school	standard
## 508	female	group	E	some high school	free/reduced
## 509	male	group	С	some college	standard
## 510	female	group		high school	standard
		_		•	
## 511	male	group		-	free/reduced
## 512	female	group	A	some high school	standard
## 513	female	group	E	associate's degree	standard
## 514	female	group	С	master's degree	standard
## 515	female	group		some high school	standard
## 516	male			•	
		group		bachelor's degree	
## 517	male	group	В	associate's degree	standard
## 518	male	group	В	high school	standard
## 519	male	group	В	associate's degree	free/reduced
## 520	female	group	Е	bachelor's degree	standard
## 521	male	group		bachelor's degree	standard
## 522	female	group		bachelor's degree	standard
## 523	male	group	D	associate's degree	standard
## 524	female	group	D	high school	standard
## 525	male	group	D	some college	free/reduced
## 526	female	group		master's degree	
## 527	female	group		some college	standard
		_			
## 528	female	group		some college	standard
## 529	male	group	A	associate's degree	free/reduced
## 530	female	group	Α	bachelor's degree	standard
## 531	female	group	С	some college	standard
## 532	female	group	D	associate's degree	standard
## 533	female	group		_	free/reduced
	female			<u>-</u>	
## 534		group		some high school	standard
## 535	male	group	D	some college	free/reduced
## 536	female	group	D	bachelor's degree	free/reduced
## 537	male	group	E	some college	free/reduced
## 538	female	group	D	some high school	free/reduced
## 539	female	group		high school	standard
## 540	male			bachelor's degree	
		group			
## 541	male	group	В	associate's degree	standard
## 542	male	group	В	some college	standard
## 543	female	group	E	some college	free/reduced
## 544	male	group	С	associate's degree	standard
## 545	female	group		high school	standard
## 546	male	_		associate's degree	standard
		group			
## 547	male	group		high school	
## 548	male	group	С		free/reduced
## 549	female	group	С	associate's degree	free/reduced
## 550	female	group	D	some high school	standard
		J 1			

##	551	female	group	E	some college	standard
##	552	male	group	D	some college	standard
	553	female	group		master's degree	
	554	male			master's degree	
			group			
	555	male	group		associate's degree	
##	556	female	group	D	bachelor's degree	free/reduced
##	557	male	group	С	bachelor's degree	free/reduced
##	558	male	group	С	some college	free/reduced
##	559	female	group	С	bachelor's degree	standard
	560	male	group		•	free/reduced
	561	female	group		high school	standard
					-	
	562	female	group		high school	standard
	563	female	group	С	some high school	standard
##	564	female	group	С	some high school	free/reduced
##	565	female	group	D	some college	standard
##	566	female	group	В	some college	standard
##	567	male	group			free/reduced
	568	female	group		some college	standard
					-	
	569	male	group			free/reduced
	570	female	group	В	some college	standard
##	571	male	group	Α	associate's degree	free/reduced
##	572	female	group	С	high school	standard
##	573	male	group	С	associate's degree	free/reduced
##	574	female	group	D	some college	free/reduced
	575	female	group		-	free/reduced
	576	male			bachelor's degree	standard
			group			
	577	male	group		some college	standard
##	578	male	group	С	master's degree	standard
##	579	female	group	В	associate's degree	standard
##	580	female	group	В	high school	free/reduced
##	581	male	group	E	master's degree	free/reduced
	582	male	group			free/reduced
	583	female	group		bachelor's degree	standard
	584	male			associate's degree	standard
			group			
	585	male	group		bachelor's degree	standard
	586	male	group	С	high school	standard
##	587	female	group	В	master's degree	standard
##	588	female	group	В	some college	standard
##	589	female	group	В	associate's degree	standard
##	590	female	group		high school	free/reduced
	591	male	group		associate's degree	
		female				
	592		group		associate's degree	standard
	593	female	group		high school	standard
	594	male	group	D	bachelor's degree	standard
##	595	female	group	В	some college	standard
##	596	female	group	В	some college	standard
##	597	female	group	В	high school	free/reduced
			3 1			

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	598	female	group		some college	standard
	599	male	group		some high school	
	600	female	group		some high school	standard
	601	female	group		-	free/reduced
	602	female	group		high school	
##	603	male	group	С	high school	standard
##	604	female	group	С	associate's degree	standard
##	605	female	group	D	bachelor's degree	standard
##	606	male	group	В	associate's degree	standard
##	607	male	group	D	high school	free/reduced
##	608	male	group	D	associate's degree	free/reduced
##	609	male	group	С	bachelor's degree	standard
##	610	male	group	D	some high school	standard
##	611	male	group	E	associate's degree	free/reduced
##	612	female	group		high school	
##	613	female	group		bachelor's degree	standard
	614	male	group		-	free/reduced
	615	female	group		high school	standard
	616	female	group		high school	standard
	617	female	group		high school	
	618	male	group		-	free/reduced
	619	male			some high school	standard
	620	female	group			
			group		bachelor's degree	
	621	female	group		some high school	
	622	female	group		-	free/reduced
	623	female	group		some college	standard
	624	male	group		associate's degree	
	625	female	group		associate's degree	standard
	626	female	group		master's degree	
	627	female	group	В	master's degree	
	628					standard
##		female	group	В	bachelor's degree	standard standard
	629	male	group group		bachelor's degree associate's degree	standard standard
				D		standard standard
##	629	male	group	D C	associate's degree	standard standard standard
## ##	629 630	male male	group group	D C B	associate's degree high school	standard standard standard
## ## ##	629 630 631	male male female	group group group	D C B	associate's degree high school associate's degree	standard standard standard free/reduced standard
## ## ## ##	629 630 631 632	male male female male	group group group group	D C B B	associate's degree high school associate's degree some high school bachelor's degree	standard standard standard free/reduced standard
## ## ## ##	629 630 631 632 633	male male female male	group group group group group	D C B B	associate's degree high school associate's degree some high school bachelor's degree	standard standard free/reduced standard free/reduced free/reduced
## ## ## ## ##	629 630 631 632 633 634	male male female male male	group group group group group group	D C B B C	associate's degree high school associate's degree some high school bachelor's degree high school	standard standard free/reduced standard free/reduced free/reduced standard
## ## ## ## ##	629 630 631 632 633 634 635	male male female male male female	group group group group group group	D C B B C D	associate's degree high school associate's degree some high school bachelor's degree high school master's degree	standard standard free/reduced standard free/reduced free/reduced free/reduced standard standard
## ## ## ## ## ##	629 630 631 632 633 634 635 636	male male female male male female female	group group group group group group group	D B B C D E	associate's degree high school associate's degree some high school bachelor's degree high school master's degree master's degree	standard standard free/reduced standard free/reduced free/reduced free/reduced standard standard
## ## ## ## ## ##	629 630 631 632 633 634 635 636	male male female male male female female female	group group group group group group group group group	D C B B C D C C C	associate's degree high school associate's degree some high school bachelor's degree high school master's degree master's degree bachelor's degree	standard standard free/reduced standard free/reduced free/reduced standard standard free/reduced standard standard
## ## ## ## ## ##	629 630 631 632 633 634 635 636 637	male male female male male female female female	group	D C B B C D D E C E	associate's degree high school associate's degree some high school bachelor's degree high school master's degree master's degree bachelor's degree some college	standard standard free/reduced standard free/reduced free/reduced standard standard free/reduced standard standard free/reduced standard
## ## ## ## ## ## ##	629 630 631 632 633 634 635 636 637 638	male male female male male female female female male	group	D C B B C D D E C C	associate's degree high school associate's degree some high school bachelor's degree high school master's degree master's degree bachelor's degree some college high school associate's degree	standard standard free/reduced standard free/reduced free/reduced standard standard free/reduced standard standard standard standard standard standard
## ## ## ## ## ## ##	629 630 631 632 633 634 635 636 637 638 639	male male female male female female female male female male	group	D C B B C D C C C C C C C C C C C C C C	associate's degree high school associate's degree some high school bachelor's degree high school master's degree master's degree bachelor's degree some college high school associate's degree bachelor's degree	standard standard free/reduced standard free/reduced free/reduced standard standard free/reduced standard standard standard standard standard standard standard
## ## ## ## ## ## ##	629 630 631 632 634 635 636 637 638 639 640	male male female male female female female male male male male	group	D C B B C D C C C C C C C C C	associate's degree high school associate's degree some high school bachelor's degree high school master's degree master's degree bachelor's degree some college high school associate's degree bachelor's degree high school	standard standard free/reduced standard free/reduced free/reduced standard
## ## ## ## ## ## ## ##	629 630 631 632 633 634 635 636 637 638 639 640 641	male male female male female female female male female male male male	group	D C B B C D C E C C C C	associate's degree high school associate's degree some high school bachelor's degree high school master's degree master's degree bachelor's degree some college high school associate's degree bachelor's degree	standard standard free/reduced standard free/reduced free/reduced standard

l	##	645	female	group	С	some high school	standard
l	##	646	male	group	C	some college	free/reduced
		647	male	group		high school	standard
		-				-	
		648	male	group		some college	standard
	##	649	male	group	D	associate's degree	standard
	##	650	female	group	В	high school	free/reduced
	##	651	male	group	В	high school	standard
		652	male	group		associate's degree	
		653	female	group		some high school	standard
	##	654	male	group	В	some college	free/reduced
	##	655	female	group	В	associate's degree	standard
	##	656	male	group	С	associate's degree	standard
	##	657	female	group		some high school	standard
	##	658	female	group		associate's degree	
		659				_	
			male	group		high school	standard
	##	660	male	group	D	some high school	
	##	661	female	group	С	high school	standard
	##	662	female	group	D	high school	free/reduced
	##	663	female	group	С	associate's degree	standard
		664	female	group		some college	standard
		665	female	group		some high school	standard
		666	female	group	D	some high school	standard
	##	667	female	group	С	some college	standard
	##	668	male	group	С	high school	free/reduced
	##	669	male	group	В	high school	standard
	##	670	male	group		some high school	standard
		671	male	group		high school	standard
		672	female	group		master's degree	standard
	##	673	female	group	С	some high school	free/reduced
	##	674	female	group	В	associate's degree	free/reduced
	##	675	male	group	В	master's degree	standard
	##	676	male	group	С	associate's degree	standard
		677	male	group		associate's degree	
		678	female	group		high school	
		679	female	group		some college	
	##	680	male	group	С	associate's degree	standard
	##	681	male	group	D	associate's degree	free/reduced
	##	682	male	group	С	some high school	free/reduced
	##	683	male	group		some high school	standard
l		684	male	group		-	free/reduced
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l		685	male	group		associate's degree	
l		686	male	group	D	high school	standard
I	##	687	female	group	В	some college	free/reduced
	##	688	male	group	D	associate's degree	standard
l	##	689	female	group		-	free/reduced
l		690	male	group			free/reduced
l	##	691	male	group	В	bachelor's degree	standard
п							

##	692	female	group	D	associate's degree	free/reduced
##	693	female	group	E	high school	standard
##	694	male	group	Α	some college	standard
##	695	male	group	D	some college	standard
##	696	male	group	В	some high school	standard
##	697	female	group	С	some high school	standard
##	698	male	group	E	associate's degree	standard
##	699	male	group		some college	free/reduced
##	700	female	group		some college	free/reduced
##		male	group		some high school	
	702	male	group		some high school	standard
##		male	group		high school	standard
##		male	group		some high school	standard
##		female	group		high school	standard
##		male	group		associate's degree	
	707	female	group		bachelor's degree	standard
##		female	group		high school	standard
##		male	group		<u>-</u>	free/reduced
##		male			-	standard
##		female	group		some high school	
			group		high school	standard
##		male	group			free/reduced
##		male	group		associate's degree	
##		female	group		master's degree	standard
	715	female	group		some high school	standard
##		male	group		some high school	standard
	717	female	group		some college	standard
	718	male	group		_	free/reduced
##		female	group		some high school	
##		female	group	E	some high school	free/reduced
##		male	group	В	some college	free/reduced
##	722	female	group	Α	some college	standard
##	723	female	group	В	some high school	standard
##	724	male	group	D	high school	free/reduced
##	725	male	group	D	high school	free/reduced
##	726	male	group	С	associate's degree	standard
##	727	male	group	D	bachelor's degree	standard
##	728	male	group	E	high school	standard
##	729	male	group	В	some college	free/reduced
##	730	female	group	В	some high school	free/reduced
##	731	male	group	E	some college	free/reduced
##	732	female	group	D	some college	standard
##	733	male	group	E	associate's degree	standard
##	734	male	group	С	associate's degree	free/reduced
##	735	female	group		some high school	
##		female	group		master's degree	
##		male	group		associate's degree	
##		male	group		associate's degree	
	-		J I			

##	739	female	group	В	high school	standard
##	740	female	group	E	associate's degree	standard
##	741	male	group	В	some college	standard
##	742	female	group	В	bachelor's degree	standard
##	743	female	group	D	some college	standard
##	744	female	group		-	free/reduced
	745	male	group		associate's degree	
	746	male				standard
	-		group		some college	
	747	female	group		<u> </u>	free/reduced
	748	female	group		high school	standard
	749	male	group	С	bachelor's degree	standard
##	750	female	group	В	high school	free/reduced
##	751	male	group	С	some college	standard
##	752	female	group	D	bachelor's degree	standard
##	753	male	group	E	high school	standard
##	754	male	group		associate's degree	
	755	female	group		master's degree	standard
	756	female			high school	standard
			group			
	757	female	group		master's degree	standard
	758	male	group		high school	standard
	759	male	group	D	high school	free/reduced
##	760	female	group	В	some college	free/reduced
##	761	female	group	В	high school	free/reduced
##	762	male	group	С	some high school	standard
##	763	male	group		master's degree	standard
##	764	female	group		associate's degree	
	765	female	group		some high school	standard
	766	male			some high school	standard
			group			
	767	female	group		-	free/reduced
	768	female	group	D	some college	standard
##	769	male	group	Α	some college	free/reduced
##	770	female	group	D	some college	standard
##	771	male	group	В	some high school	free/reduced
##	772	female	group	С	master's degree	standard
##	773	female	group	С	associate's degree	standard
##	774	male	group		high school	standard
	775	male	group		some college	
	776	female	group		some high school	
	777	male	group		-	free/reduced
	778	male	group		associate's degree	standard
	779	male	group		master's degree	
##	780	male	group	С	associate's degree	free/reduced
##	781	female	group	Α	bachelor's degree	standard
##	782	female	group	D	bachelor's degree	standard
##	783	female	group	D	bachelor's degree	standard
##	784	male	group		associate's degree	free/reduced
	785	female	group		associate's degree	standard
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	##	786	male	group	В	bachelor's degree	free/reduced
	##	787	male	group	D	some high school	standard
	##	788	female	group	D	some college	standard
	##	789	male	group	D	high school	standard
	##	790	male	group		some high school	free/reduced
	##	791	female	group		master's degree	
	##	792	female	group		high school	standard
	##	793	female	group		some college	standard
	##	794	male	group			free/reduced
		795	male	group		bachelor's degree	standard
		796	female	group		master's degree	free/reduced
		797	male	group		associate's degree	
		798	male	group		associate's degree	standard
		799	male	group		some college	standard
		800	male	group		-	free/reduced
		801	male	group		high school	standard
		802	female	group		some high school	standard
		803	female	group		some college	standard
		804	male	group		some college	standard
		805	male	group		high school	standard
		806	male	group		associate's degree	standard
		807	female	group		associate's degree	
		808	female	group		master's degree	standard
		809	female			master's degree	
		810	female	group		some college	standard
		811	female	group group		some correge some high school	standard
		812	male			master's degree	
		813	male	group		associate's degree	standard
			male	group			standard
		814	male	group		some college	
		815		group		some college	standard
		816	female	group		high school	standard
		817	female	group		associate's degree	standard
		818	male	group		master's degree	standard
		819	female	group		some high school	standard
		820	female	group		<u>. </u>	free/reduced
		821	female	group		some high school	standard
		822	male	group		high school	standard
		823	female	group		master's degree	standard
		824	male	group		master's degree	standard
		825	male	group		high school	standard
		826	male	group		associate's degree	standard
		827	female	group		bachelor's degree	standard
		828	female	group		associate's degree	
l		829	male	group		some high school	standard
l		830	female	group			free/reduced
		831	male	group		master's degree	
	##	832	male	group	С	some college	standard
1							

##	833	female	group	D	some college	free/reduced
##	834	male	group	Α	master's degree	standard
	835	female	group		some college	standard
	836	female	group		some high school	standard
	837	female	group	С	some high school	free/reduced
##	838	male	group	Α	high school	standard
##	839	male	group	D	associate's degree	free/reduced
##	840	male	group	E	some college	standard
##	841	male	group		associate's degree	free/reduced
	842	female	group		associate's degree	
	843	male			-	standard
			group		some college	
	844	male	group		master's degree	standard
##	845	female	group	D	associate's degree	free/reduced
##	846	male	group	С	some high school	standard
##	847	female	group	E	associate's degree	free/reduced
##	848	female	group	С	associate's degree	standard
	849	male	group		high school	standard
	850	female			bachelor's degree	
			group		<u>. </u>	
	851	male	group		high school	standard
##	852	male	group	Α	associate's degree	standard
##	853	male	group	С	some high school	standard
##	854	male	group	D	some college	standard
##	855	male	group	D	bachelor's degree	standard
##	856	female	group		master's degree	standard
	857	male	group		some high school	
	858	female			master's degree	standard
			group		-	
	859	female	group		some high school	standard
##	860	female	group	D	high school	standard
##	861	male	group	С	bachelor's degree	standard
##	862	female	group	D	some college	standard
##	863	male	group	С	bachelor's degree	standard
##	864	male	group	С	some college	standard
	865	female	group			free/reduced
	866	male	group		some high school	
					-	
	867	male	group		bachelor's degree	standard
	868	female	group		bachelor's degree	
##	869	male	group	В	master's degree	free/reduced
##	870	male	group	D	high school	standard
##	871	female	group	В	high school	free/reduced
##	872	male	group	D	some college	standard
	873	female	group			free/reduced
	874	male	group		bachelor's degree	standard
			_		-	
	875	male	group		bachelor's degree	standard
	876	female	group		some high school	
	877	female	group	В	high school	standard
##	878	male	group	E	some college	free/reduced
##	879	female	group	С	bachelor's degree	standard
			-		_	

ı							
	##	880	male	group	С	some high school	standard
	##	881	female	group	Α	some college	free/reduced
	##	882	male	group	В	master's degree	standard
	##	883	female	group	В	associate's degree	standard
	##	884	female	group		some college	standard
	##	885	male	group		some college	standard
	##	886	male	group		-	free/reduced
		887	male	group		associate's degree	
		888	female	group		associate's degree	
		889	female	group		associate's degree	standard
		890	female	group		some college	
		891	male	group			free/reduced
		892	male	group		high school	standard
		893	male	group		some college	
		894	male	_		-	
				group		associate's degree	
		895	male	group		associate's degree	standard
		896	female	group		master's degree	standard
		897	male	group			free/reduced
		898	female	group		some high school	
		899	female	group		some college	standard
		900	male	group		some high school	
	##	901	male	group	В	some high school	standard
	##	902	female	group	E	high school	free/reduced
	##	903	male	group	A	some college	standard
	##	904	male	group	D	high school	free/reduced
	##	905	male	group	E	bachelor's degree	free/reduced
	##	906	male	group	В	associate's degree	standard
	##	907	female	group	В	associate's degree	standard
	##	908	male	group	С	high school	standard
	##	909	female	group	С	some college	free/reduced
	##	910	male	group	D	some college	standard
	##	911	female	group	D	some high school	free/reduced
	##	912	female	group	Α	associate's degree	standard
	##	913	female	group		master's degree	free/reduced
	##	914	female	group		some college	standard
		915	male	group		high school	standard
		916	female	group		some college	
		917	male	group		high school	standard
		918	male	group			free/reduced
		919	male	group		some high school	standard
		920	female	group		associate's degree	standard
l		921	female	group		associate's degree	standard
l		921	female			some college	
l			male	group			
		923	male	group		some college	standard
		924		group		associate's degree	standard
		925	female	group		some high school	standard
	##	926	male	group	Ľ	nign school	free/reduced
1							

##	927	male	group	С	associate's degree	standard
##	928	male	group	С	bachelor's degree	free/reduced
##	929	male	group	D	associate's degree	standard
##	930	female	group		master's degree	standard
	931	female	group		some high school	standard
	932	male			<u> </u>	
			group		associate's degree	
	933	male	group		_	free/reduced
	934	male	group	D	associate's degree	free/reduced
##	935	female	group	С	master's degree	standard
##	936	male	group	D	some high school	standard
##	937	female	group	D	some high school	standard
##	938	female	group	В	high school	standard
##	939	male	group	Α	high school	free/reduced
##	940	male	group		bachelor's degree	
	941	male	group		associate's degree	
	942	female				standard
			group		some college	
	943	female	group		high school	standard
##	944	male	group	С	associate's degree	free/reduced
##	945	female	group	С	associate's degree	standard
##	946	male	group	Α	some college	free/reduced
##	947	female	group	D	high school	standard
##	948	female	group	В	some college	standard
##	949	male	group		some high school	free/reduced
##	950	female	group		some high school	standard
	951	male	group		some high school	standard
	952	male			bachelor's degree	standard
			group			
	953	female	group		bachelor's degree	standard
	954	male	group		associate's degree	standard
##	955	female	group	С	high school	standard
##	956	male	group	D	associate's degree	standard
##	957	male	group	С	high school	standard
##	958	male	group	E	bachelor's degree	free/reduced
##	959	female	group	D	some college	standard
	960	male	group		master's degree	standard
	961	male	group		associate's degree	standard
	962	male	group		master's degree	standard
	963	male	group		some high school	standard
	964	female	group		some high school	standard
	965	male	group	E	bachelor's degree	standard
##	966	female	group	E	bachelor's degree	standard
##	967	female	group	Α	some high school	free/reduced
##	968	female	group	E	master's degree	free/reduced
##	969	female	group		some high school	free/reduced
##	970	male	group		high school	standard
	971	female	group		some high school	
	972	male	group		some high school	
	973	female	group		associate's degree	
ππ	,,,	remare	group	ند	associate's degree	scandard

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l	##	974	male	group C	associate's degree	e standard
l	##	975	female	group B	some high school	standard
l	##	976	male	group C	associate's degree	standard
l	##	977	female	group B	some college	free/reduced
l		978	female	group C	some high school	
l		979	male	group C		free/reduced
l			female			
l		980		group B	bachelor's degree	
l		981	female	group C	some high school	
l		982	male	group C	some college	
l	##	983	male	group C	master's degree	free/reduced
l	##	984	male	group A	some high school	standard
l	##	985	${\tt female}$	group D	high school	standard
l	##	986	male	group E	associate's degree	standard
l	##	987	male	group E	some college	free/reduced
l	##	988	male	group A	some college	standard
l	##	989	female	group B	some college	
l		990	male	group D	some college	
l		991	male	group D	some college	
l					-	
l		992	female	group C	associate's degree	
l		993	male	group C	some college	
l		994	female	group A	associate's degree	
l		995	male	group E	<u>. </u>	free/reduced
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l	##	997	male	group D	associate's degree	free/reduced
l	##	998	female	group C	some high school	free/reduced
l	##	999	female	group C	some college	standard
l	##	1000	male	group A	some college	standard
l	##		test.pi	reparation.course	math.score reading.score	writing.score
l	##	1	-	completed	-	63
l	##			none		55
l		3		none		50
l	##					
l				none		68
l	##			completed		68
l	##			none		76
l	##			none		63
l	##			completed	93 88	84
l	##	9		none	63 56	65
l	##	10		none	47 42	45
l	##	11		completed	99 83	85
	##	12		completed	80 87	90
	##			completed		85
	##			completed		73
	##			completed		85
	##			none		57
	##					
				none		42
	##			completed		65
	##	19		none	23 44	44
1						

##	20 no	one	39	32	31
##	21 no	one	83	76	88
			58	52	55
	23 comple		71	69	73
	-		44	55	54
			46	38	
					32
			51	45	42
			53	60	56
			71	68	60
	29 comple		74		89
			33	54	51
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##	32 no	one	78	74	73
##	33 comple	ted	40	41	39
##	34 comple	ted	65	65	71
##	35 comple	ted	79	88	89
##	36 no	one	68	74	74
##	37 comple	ted	57	77	75
##	38 no	one	67	65	54
##	39 comple	ted	58	68	73
	-		98	81	77
			54	75	72
			77	67	64
	43 comple		87		82
	-		58	70	70
			00	88	87
			60	46	51
			64	63	57
##	-		65	76	78
			68	72	73
	50 comple		60	63	57
			65	68	64
			52	58	60
			74	81	85
			36	53	49
			57	57	47
	56 comple		56	60	62
##	57 comple	ted	67	80	84
##	58 comple	ted	88	87	83
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##	60 no	one	68	51	48
##	61 no	one	76	66	68
##	62 no	one	58	63	59
##	63 comple	ted	69	67	62
##	64 comple	ted	77	82	78
##	65 comple	ted	83	93	97
##	66 comple		49	74	70
	-				

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## 68	none	47	46	49
## 69	none	79	64	60
## 70	none	60	64	57
## 71	completed	56	68	73
## 72	none	57	52	47
## 73	none	49	70	63
## 74	completed	79	76	81
## 75	none	71	76	67
## 76	none	71	77	70
## 77	none	47	63	59
## 78	none	72	91	81
## 79	none	78	73	76
## 80	none	54	43	45
## 81	none	46	59	62
## 82	none	31	38	42
## 83	none	51	59	59
## 84	completed	78	76	73
## 85	none	32	41	39
## 86	none	53	71	69
## 87	none	63	76	69
## 88	none	97	93	88
## 89	none	56	52	61
## 90	none	72	76	72
## 91	none	57	47	42
## 92	none	74	71	70
## 93	none	81	81	87
## 94	completed	94	87	93
## 95	none	81	73	72
## 96	completed	58	63	67
## 97	completed	95	100	100
## 98	none	45	52	49
## 99	none	63	50	49
## 100	none	60	54	53
## 101	completed	54	61	62
## 102	completed	75	78	79
## 103	none	79	78	77
## 104	none	66	67	67
## 105	none	47	58	58
## 106	none	70	78	82
## 107	none	82	74	73
## 108	none	56	38	44
## 109	none	92	78	71
## 110	none	30	33	33
## 111	completed	79	88	86
## 112	none	41	52	47
## 113	none	63	82	71

## 114	none	43	34	33
## 115	none	77	76	74
## 116	completed	76	79	76
## 117	none	49	61	63
## 118	completed	59	57	55
## 119	none	59	70	58
## 120	completed	76	90	87
## 121	completed	55	71	71
## 122	completed	78	87	89
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	none			
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## 127	none	77	71	64
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## 136	none	73	78	69
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## 139	none	52	44	49
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## 143	none	86	83	87
## 144	none	55	62	60
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## 146	none	51	57	57
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## 148	none	60	55	46
## 149	completed	100	100	100
## 150	none	46	44	44
## 151	completed	67	78	80
## 152		54	67	59
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## 153 ## 154	none	63	79	76
## 154	none	68 54	66	73
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## 156	none	43	44	47
## 157	none	64	64	59
## 158	none	92	87	87
## 159	none	82	95	93
## 160	none	84	78	79
I				

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## 161	completed	84	98	97
## 162	none	65	63	65
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## 164	completed	70	75	75
## 165	completed	66	72	70
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## 189	none	73	65	64
## 190	completed	52	63	53
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## 192	none	33	51	51
## 193	none	68	62	61
## 194	completed	77	91	89
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## 196	none	39	49	48
## 197		50	46	48
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## 199	completed	54	62	70
## 200	none	74	63	65
## 201	completed	50	63	65
## 202	none	55	54	47
## 203	none	77	64	70
## 204	completed	49	64	67
## 205	none	66	83	82
## 206	completed	77	74	75
## 207	completed	74	78	84
I				

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##	210	none	64	62	66
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	218	none	71	81	77
	219	completed	66	59	68
	220	none	68	61	62
	221	none	89	90	83
	222	completed	65	69	74
	223	none	43	48	44
	224	none	79	77	83
	225	none	99	94	97
	226	none	82	69	72
	227	completed	35	36	39
	228	none	61	71	73
	229	none	76	80	81
	230	completed	94	83	82
	231	none	75	90	78
	232	none	81	75	70
	233	none	35	44	33
	234	none	76	74	72
	235	none	58	79	82
	236		100	91	90
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	238	none	82	95	96
	239	none	76	62	64
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	241	none	72	84	82
	242	completed	76	76	83
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	244	none	63	65	63
	245	none	36	34	28
	246	none	68	74	71
	247	completed	40	52	42
	248	none	68	71	61
	249	completed	56	54	52
	250	none	74	83	80
	251	none	53	70	71
	252	none	88	65	70
	253	none	67	63	61
	254	none	60	76	65
""			J. U	. •	

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## 255	none	51	61	54
## 256	none	53	66	59
## 257	none	80	78	74
## 258	none	69	71	67
## 259	none	64	79	70
## 260	completed	80	87	89
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## 263	none	64	56	50
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## 265	completed	90	82	88
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## 267	none	73	73	70
## 268	none	67	76	77
## 269	none	57	58	62
## 270	none	65	73	72
## 271	none	71	72	71
## 272	none	59	69	72
## 273	completed	74	71	65
## 274	none	93	100	93
## 275	completed	85	93	92
## 276	none	76	83	79
## 277	none	58	72	70
## 278	none	72	77	77
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## 282	completed	100	100	100
## 283	completed	53	65	66
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## 286	none	77	80	80
## 287	none	82	89	84
## 288	none	55	48	42
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## 292	completed	71	77	82
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## 294	none	60	75	70
## 295	completed	43	60	60
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## 297	none	50	47	46
## 298	none	56	58	52
## 299	none	69	58	50
## 300	none	47	43	39
## 301	none	43	28	24
" " , , , ,				

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##	304	none	7.	3 68	66
##	305	none	7	1 63	66
##		none	5		
##		none	6		
##		none	6.		
##			6		
		none	7:		
##		completed			
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##		none	3		
##		none	5		
##		completed	8		
##		none	7		
##		completed	8.		
##		completed	5		
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##	320	none	8	3 85	79
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##	322	completed	5:	9 83	81
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##			5		
		none			
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##		none	5		
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	355	none	65	75	68
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	377	none	85	91	89
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	387	none	43	57	50
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## 484	none	71	78	82
## 485	completed	86	76 91	82 89
## 486		93	96	96
## 487	none none	60	64	60
## 488	none	57	56	58
## 489	none	84	79	74
1FTF = 103	none	04	13	/ 4

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##	492	completed	57	68	76
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	496	none	78	65	60
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	500	completed	89	84	81
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	502	none	87	87	92
	503	none	71	57	59
	504	none	77	80	72
	505	completed	43	48	53
	506		88	91	86
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	507	none	86		63 55
	508	completed	45	56	55 57
	509	none	69	56	57
	510	none	65	70	72
	511	none	81	79	71
	512	none	90	88	86
	513	none	78	72	71
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	515	none	75	80	72
	516	none	70	60	56
	517	none	54	52	48
	518	none	49	36	32
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	520	none	78	89	93
	521	none	89	77	82
	522	completed	65	83	82
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	524	none	69	85	78
	525	none	49	47	48
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##	532	none	66	73	73
##	533	none	45	59	56
##	534	completed	62	78	73
##	535	completed	74	80	86
##	536	none	82	87	90

##	537	completed	83	63	63
##	538	completed	60	72	76
##	539	none	66	73	72
##	540	none	76	66	68
##	541	completed	75	74	76
	542	completed	77	72	79
	543	none	82	88	86
	544	completed	63	59	60
	545	none	70	85	85
	546	completed	84	71	76
	547	completed	68	60	63
	548	none	56	58	50
	549	none	37	46	43
	550	none	49	56	53
	551	completed	100	100	100
	552		83	68	65
		none			
	553	completed	92	100	98
	554	none	71	62	66
	555	completed	72	76	73
	556	none	37	53	48
	557	none	35	43	35
	558	none	69	68	62
	559	none	65	73	81
	560	none	56	48	36
	561	none	40	46	57
	562	none	60	62	60
	563	none	57	66	73
##	564	completed	58	62	66
##	565	completed	74	95	94
##	566	none	77	77	83
##	567	none	66	57	53
##	568	completed	62	79	87
##	569	none	29	38	27
##	570	none	70	73	66
##	571	none	67	64	60
##	572	completed	81	91	94
##	573	none	56	50	43
##	574	none	61	79	76
##	575	completed	47	54	56
##	576	completed	88	87	94
##	577	completed	51	52	52
##	578	none	68	60	62
	579	none	68	71	71
	580	none	47	49	50
	581	completed	84	77	82
	582	none	69	72	68
	583	completed	52	69	75
		•		, ,	

##	584	none	80	79	79
##	585	none	100	84	88
	586	completed	53	59	64
	587	completed	59	73	74
	588	none	78	96	89
	589	none	84	87	89
	590	none	52	72	71
	591		81	78	75
	592	none	90	95	100
	593	completed	63	73	66
	594	none			
		completed	100	97	100
	595	none	56	63	62
	596	none	46	54	54
	597	completed	75	85	90
	598	none	46	51	54
	599	none	42	40	40
	600	completed	77	86	90
	601	none	40	63	56
	602	none	69	71	76
##	603	none	43	50	45
##	604	completed	69	75	71
##	605	completed	89	93	100
##	606	none	44	34	36
##	607	completed	82	83	77
##	608	none	72	72	65
##	609	none	64	53	50
##	610	none	89	73	70
##	611	none	58	53	54
##	612	completed	63	81	78
	613	none	54	66	69
	614	completed	83	78	82
	615	none	57	74	64
	616	none	52	47	48
	617	completed	75	93	97
	618	completed	67	66	64
	619	none	58	60	53
	620	none	63	66	68
	621	none	49	64	57
	622		38	47	52
	623	none	74	85	84
		completed			
	624	completed	69	84	82
	625	none	77	82	80
	626	none	40	59	59
	627	completed	96	98	100
	628	none	85	86	85
	629	none	85	77	76
##	630	none	72	59	54

##	631	none	63	78	73
##	632	none	58	67	58
##	633	none	58	64	54
##	634	none	51	57	53
##	635	completed	100	100	100
##	636	none	77	84	92
	637	none	63	56	56
	638	none	64	67	68
	639	none	100	82	80
	640	none	66	65	65
	641	none	87	87	84
	642	none	73	72	69
	643	completed	69	66	65
	644	none	62	64	63
	645		40	48	49
	646	none			60
		completed	55	68	
	647	completed	77	77	78
	648	completed	63	70	71
	649	completed	85	85	91
	650	none	30	43	40
	651	none	82	77	71
	652	completed	81	71	70
	653	completed	92	100	97
	654	none	50	48	36
##	655	none	54	60	56
##	656	completed	76	83	78
##	657	none	60	68	74
##	658	completed	45	72	66
##	659	none	80	77	72
##	660	none	52	45	48
##	661	completed	90	89	97
##	662	none	53	65	69
##	663	none	92	95	95
##	664	completed	63	78	75
##	665	none	71	77	79
##	666	none	64	70	73
##	667	completed	67	81	89
##	668	none	63	63	61
	669	none	63	53	44
	670	none	59	49	46
	671	none	49	43	35
	672	none	75	84	86
	673	none	34	47	45
	674	none	53	70	69
	675	none	63	56	60
	676	none	75	69	65
	677	none	63	61	62
ππ		110116	0.5	01	02

##	678	none	70	72	75
##	679	none	61	73	70
	680	none	74	61	59
	681		57	49	48
		none			
	682	completed	41	52	47
	683	none	87	80	76
	684	none	69	71	62
##	685	none	69	77	70
##	686	completed	58	56	56
##	687	completed	47	69	62
##	688	completed	78	69	71
##	689	completed	54	61	71
##	690	none	36	27	26
	691	completed	94	92	92
	692	none	68	84	80
	693	none	90	88	84
	694	none	57	57	53
	695		96	95	90
		completed			
	696	completed	68	63	62
	697	completed	52	64	63
	698	none	90	76	73
	699	completed	71	82	75
##	700	completed	58	69	74
##	701	none	41	39	34
##	702	completed	43	37	43
##	703	none	85	70	71
##	704	none	71	72	69
##	705	none	72	70	72
##	706	none	70	62	66
	707	none	89	100	100
	708	none	92	86	82
	709	completed	80	79	81
	710	none	80	70	60
	711		56	64	59
		none			
	712	none	93	86	73
	713	completed	49	37	41
	714	none	59	57	58
	715	completed	64	74	75
##	716	none	73	66	59
##	717	completed	82	86	90
##	718	none	48	43	41
##	719	completed	51	64	62
##	720	completed	38	46	43
##	721	none	45	50	42
	722	completed	83	92	95
	723	completed	45	57	56
	724	none	66	64	62
" "			3.0	31	~-

I				
## 725	completed	60	62	57
## 726	none	49	47	49
## 727	none	80	84	86
## 728	none	75	68	66
## 729	completed	57	68	61
## 730	none	25	36	37
## 731	none	90	87	81
## 732	none	63	70	71
## 733	none	100	91	86
## 734	none	76	68	66
## 735	none	52	58	53
## 736	completed	81	86	93
## 737	completed	90	89	87
## 738	none	83	82	81
## 739	none	61	73	69
## 740	completed	79	69	75
## 741	none	52	53	51
## 742	completed	62	65	67
## 743	none	85	90	84
## 744	completed	74	96	95
## 745	none	83	85	78
## 746	none	78	72	72
## 747	none	41	43	40
## 748	none	77	91	87
## 749	none	95	99	91
## 750	none	50	68	66
## 751		74	76	70
## 751	none		93	
	completed	74		93
## 753	none	70	62	61
## 754	none	61	59	54
## 755	completed	94	100	100
## 756	none	66	84	77
## 757	none	83	88	93
## 758	none	75	63	60
## 759	completed	56	65	63
## 760	none	66	88	83
## 761	none	61	69	66
## 762	completed	70	79	73
## 763	none	57	59	53
## 764	completed	78	89	90
## 765	none	62	76	67
## 766	completed	64	53	49
## 767	none	55	66	65
## 768	none	72	83	83
## 769	none	49	48	42
## 770	none	62	60	63
## 771	none	76	73	68
"" ' ' '	none	, 0	, 5	00

"" ===	0.6	
## 772 completed 73	86	85
## 773 completed 72	76	78
## 774 none 85	85	76
## 775 none 71	68	65
	38	
		31
## 777 none 41	42	38
## 778 none 78	72	68
## 779 none 48	52	44
## 780 none 38	51	47
## 781 completed 91	100	100
## 782 none 71	81	80
## 783 none 84	87	92
## 784 completed 63	60	63
## 785 completed 70	78	87
## 786 completed 48	52	57
## 787 completed 68	72	73
## 788 none 84	84	87
## 789 none 61	62	60
## 790 none 62	59	62
## 791 none 66	78	83
## 792 completed 52	65	71
## 793 completed 68	75	73
## 794 completed 62	68	71
## 795 completed 90	88	84
## 796 none 42	50	44
## 797 completed 74	90	89
## 798 completed 62	61	61
## 799 none 56	55	50
## 800 none 64	52	54
## 801 completed 79	84	80
## 802 none 44	65	63
## 803 completed 69	94	87
_	48	48
## 805 none 74	69	61
## 806 none 49	55 	48
## 807 none 57	71	71
## 808 none 61	72	64
## 809 none 65	88	84
## 810 none 51	60	52
## 811 none 49	51	41
## 812 none 56	65	56
## 813 none 65	62	63
## 814 none 70	64	62
## 815 none 91	95	88
## 816 completed 48	56	64
## 817 completed 94	99	100
## 818 none 77	76	73
	. •	, 5

##	819	none	59	78	75
##	820	none	57	75	70
##	821	none	76	82	74
##	822	none	65	63	64
##	823	completed	75	75	83
##	824	none	70	66	65
##	825	completed	79	79	70
	826	completed	100	100	100
	827	completed	83	96	99
	828	none	70	84	78
	829	completed	97	80	88
	830	none	33	32	35
	831	none	38	40	41
	832	completed	46	51	47
	833		13	36	37
		none			
	834	none	85	83	78
	835	none	79	79	80
	836	none	76	81	79
	837	completed	53	70	65
	838	completed	68	70	63
	839	completed	67	70	70
##	840	completed	100	84	88
##	841	none	54	48	45
##	842	none	72	73	70
##	843	completed	91	97	95
##	844	completed	87	81	86
##	845	none	66	75	74
##	846	none	65	66	64
##	847	completed	41	56	53
##	848	none	67	69	65
##	849	none	94	89	86
	850	completed	57	70	68
	851	none	89	83	80
	852	completed	77	73	80
	853	none	57	60	50
	854	completed	72	72	72
	855	completed	98	94	95
	856	none	87	97	100
	857		61	57	55
	858	none	85	100	97
		none			
	859	none	81	85	91
	860	completed	74	84	79
	861	none	98	92	90
	862	none	86	84	89
	863	completed	85	81	82
	864	none	68	71	63
##	865	completed	66	78	77

##	866	completed	75	74	71
##	867	none	79	57	58
##	868	none	59	85	82
	869	none	60	62	58
	870	none	69	60	54
	871	none	49	54	58
	872	none	62	44	52
	873		70	84	83
		completed			
	874	none	71	57	60
	875	none	71	69	65 5.4
	876	none	50	59	54
	877	none	52	55	57
	878	completed	75	65	66
	879	none	51	64	63
	880	none	64	48	50
##	881	completed	65	76	72
##	882	none	99	81	87
##	883	none	60	62	58
##	884	none	70	78	80
##	885	completed	77	76	77
##	886	none	37	28	23
##	887	none	73	73	61
##	888	completed	53	74	75
##	889	none	67	58	62
##	890	none	67	79	80
##	891	none	51	57	50
	892	completed	64	71	70
	893	none	55	42	43
	894	completed	55	39	51
	895	none	86	77	78
	896	none	71	88	85
	897	none	71	63	64
	898	none	51	67	69
	899	completed	75	76	85
	900	none	45	31	27
	901	none	59	54	48
	902		64	69	68
		none			
	903	completed	78	69	73
	904	none	59	61	58
	905	none	80	70	71
	906	completed	68	82	77
	907	none	77	81	79
	908	none	66	67	64
	909	completed	26	44	46
	910	completed	80	66	69
	911	none	48	62	61
##	912	none	52	64	55

##	913	none	54	64	64
##	914	completed	59	68	67
##	915	none	77	62	65
##	916	none	64	70	69
	917	none	83	72	68
	918	none	70	73	69
	919	none	72	68	67
	920	none	83	78	79
	921		52	58	57
		none	53	73	74
		completed			
	923	none	55	55	55
	924	none	65	63	61
	925	none	60	67	64
		completed	64	62	59
	927	none	71	72	69
		completed	61	71	65
	929	none	61	55	58
##	930	none	65	74	79
##	931	completed	71	83	89
##	932	none	48	49	44
##	933	completed	75	80	75
##	934	none	54	66	65
##	935	none	70	64	65
##	936	none	91	77	72
##	937	completed	33	44	50
##	938	none	45	50	41
##	939	none	45	33	32
##	940	none	62	61	57
		completed	92	79	77
	942	none	74	75	79
		completed	81	79	83
	944	none	76	71	66
		completed	57	72	73
	946	none	63	61	55
		completed	57	62	73
		completed	46	65	64
		completed	49	50	45
	950	none	54	60	65
			89	87	90
		completed			
		completed	77	70	78 60
	953	none	46	63	60
		completed	66	59	70
	955	none	48	63	53
		completed	83	76	81
		completed	69	75 	74
	958	none	73	52	54
##	959	none	43	59	59
1					

## 960	completed	91	84	83
## 961	completed	49	58	55
## 962	none	87	86	84
## 963	completed	46	46	44
## 964	completed	63	61	71
## 965	none	100	83	86
## 966	none	86	87	89
## 967	completed	55	73	70
## 968	none	84	100	99
## 969	none	39	51	48
## 970	none	67	57	52
## 971	completed	85	100	97
## 971 ## 972	none	64	51	44
## 973	none	81	77	74
## 974	none	78	71	67
## 975	none	59	59	58
## 976	none	74	76	70
## 977 ## 977	completed	31	29	35
## 978	completed	54	55	65
## 979	none	51	51	45
## 980	completed	57	65	68
## 981	none	39	50	49
## 982	none	64	48	48
## 983	completed	69	79	72
## 984	none	58	50	47
## 985	none	63	71	75
## 986	none	74	73	67
## 987	none	78	84	77
## 988	completed	78	78	74
## 989	none	75	76	81
## 990	completed	70	60	65
## 991	none	67	55	53
## 992	none	87	93	88
## 993	none	69	63	66
## 994	none	58	54	58
## 995	completed	86	82	75
## 996	none	73	70	65
## 997	completed	85	91	92
## 998	none	32	35	41
## 999	none	73	74	82
## 1000	completed	65	60	62

#PART B #DESCRIPTIVE STATISTICS FOR NUMERIC VARIABLES

summary(my)

```
##
                                            parental.level.of.education
       gender
                        race.ethnicity
##
    Length: 1000
                        Length: 1000
                                            Length: 1000
    Class :character
                        Class :character
                                            Class :character
##
##
    Mode :character
                        Mode :character
                                            Mode :character
##
##
##
##
       lunch
                                                                  reading.score
                        test.preparation.course
                                                   math.score
                                                 Min.
                                                        : 13.0
                                                                         : 27
    Length: 1000
                        Length: 1000
                                                                  Min.
##
    Class :character
                        Class :character
                                                 1st Qu.: 56.0
                                                                  1st Qu.: 60
##
##
    Mode :character
                        Mode
                             :character
                                                 Median: 66.5
                                                                  Median: 70
##
                                                 Mean
                                                        : 66.4
                                                                  Mean
                                                                         : 69
                                                 3rd Qu.: 77.0
                                                                  3rd Qu.: 79
##
##
                                                 Max.
                                                        :100.0
                                                                  Max.
                                                                         :100
##
    writing.score
##
    Min.
           : 23.00
##
    1st Qu.: 58.00
##
    Median : 68.00
##
    Mean
           : 67.74
    3rd Qu.: 79.00
##
           :100.00
##
    Max.
mean(my$math.score)
## [1] 66.396
median(my$math.score)
## [1] 66.5
min(my$math.score)
## [1] 13
```

max(my\$math.score)

[1] 100

var(my\$math.score)

```
## [1] 237.2484
```

sd(my\$math.score)

```
## [1] 15.40287
```

```
str(my$math.score)
```

```
## int [1:1000] 67 40 59 77 78 63 62 93 63 47 ...
```

#PART C #DESCRIPTIVE STATISTICS FOR QUALITATIVE DATA

```
table(my$reading.score)
```

```
##
     27
##
           28
                 29
                      31
                            32
                                  33
                                       34
                                             35
                                                   36
                                                        37
                                                              38
                                                                    39
                                                                         40
                                                                               41
                                                                                     42
                                                                                          43
                                                                                                      45
                                                                                                                 47
                                                                                                44
                                                                                                            46
                             2
                                                                                2
##
      1
            2
                  2
                        1
                                   2
                                         4
                                              1
                                                    4
                                                          2
                                                               6
                                                                     4
                                                                           2
                                                                                      4
                                                                                          10
                                                                                                10
                                                                                                       3
                                                                                                           10
                                                                                                                  9
##
     48
           49
                50
                      51
                            52
                                 53
                                       54
                                             55
                                                   56
                                                        57
                                                              58
                                                                    59
                                                                         60
                                                                               61
                                                                                     62
                                                                                          63
                                                                                                64
                                                                                                      65
                                                                                                            66
                                                                                                                 67
##
     13
            9
                 10
                      11
                            19
                                 12
                                       14
                                             11
                                                   16
                                                        20
                                                              13
                                                                    19
                                                                         23
                                                                               23
                                                                                     28
                                                                                          34
                                                                                                32
                                                                                                      22
                                                                                                           20
                                                                                                                 15
##
     68
           69
                70
                      71
                            72
                                 73
                                       74
                                             75
                                                   76
                                                        77
                                                              78
                                                                    79
                                                                         80
                                                                               81
                                                                                     82
                                                                                          83
                                                                                                84
                                                                                                      85
                                                                                                                 87
                                                                                                           86
##
     23
           22
                27
                      36
                            28
                                 31
                                       22
                                             21
                                                   28
                                                        21
                                                              31
                                                                    22
                                                                         15
                                                                               16
                                                                                     13
                                                                                          24
                                                                                                21
                                                                                                      16
                                                                                                           13
                                                                                                                 24
##
                90
                      91
                                                              98
     88
           89
                            92
                                 93
                                       94
                                             95
                                                   96
                                                        97
                                                                    99
                                                                       100
##
     16
            8
                  9
                      10
                             7
                                   8
                                         4
                                              9
                                                          3
                                                               2
                                                                     2
                                                                         19
```

```
my$reading.score
```

```
78
                                    73
                                          77
                                                                42
                                                                                      74
##
               67
                    59
                          60
                                               59
                                                     88
                                                          56
                                                                     83
                                                                           87
                                                                                87
                                                                                           87
                                                                                                 61
                                                                                                      47
                                                                                                            62
        [1]
                                                                                79
                                                                                      74
##
      [19]
               44
                    32
                          76
                               52
                                     69
                                          55
                                               38
                                                     45
                                                          60
                                                                68
                                                                     89
                                                                           54
                                                                                           41
                                                                                                 65
                                                                                                      88
                                                                                                            74
##
      [37]
                    65
                                     75
                                          67
                                               79
                                                     70
                                                          88
                                                                           76
                                                                                72
                                                                                      63
                                                                                           68
                                                                                                 58
                                                                                                            53
              77
                          68
                               81
                                                                46
                                                                     63
                                                                                                      81
##
      [55]
              57
                    60
                          80
                               87
                                    61
                                          51
                                               66
                                                     63
                                                          67
                                                                82
                                                                     93
                                                                           74
                                                                                60
                                                                                      46
                                                                                           64
                                                                                                 64
                                                                                                      68
                                                                                                            52
              70
                    76
                               77
                                                                                           76
                                                                                                            76
##
      [73]
                          76
                                     63
                                          91
                                               73
                                                     43
                                                          59
                                                                38
                                                                     59
                                                                           76
                                                                                41
                                                                                      71
                                                                                                 93
                                                                                                      52
##
      [91]
               47
                    71
                          81
                               87
                                     73
                                          63
                                              100
                                                     52
                                                          50
                                                                54
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##
     [109]
              78
                    33
                          88
                               52
                                    82
                                          34
                                               76
                                                     79
                                                          61
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                                                                                      87
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##
     [127]
              71
                    52
                          84
                               95
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                                                63
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                                                                     81
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                                                                                                      83
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##
              71
                    57
                               55 100
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                                                                                      87
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     [145]
                          61
                                                     67
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                    75
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##
     [163]
              92
                          72
                               87
                                     64
                                          64
                                               90
                                                     85
                                                          60
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                                                                     66
                                                                           64
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                                                                                                      93
                                                                                                            87
##
     [181]
              62
                    52
                          95
                               83
                                    85
                                         100
                                               77
                                                     61
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                                                     74
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##
     [199]
               62
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                                               83
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##
     [217]
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                    81
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                                     90
                                          69
                                                48
                                                     77
                                                          94
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##
               79
                                                                     34
     [235]
                    91
                          68
                               95
                                          75
                                                84
                                                     76
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                                                                                                      70
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                                     62
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     [253]
                               66
                                     78
                                          71
                                                79
                                                     87
                                                          72
                                                                46
                                                                           66
                                                                                      71
                                                                                           73
                                                                                                 76
                                                                                                      58
##
               63
                    76
                          61
                                                                     56
                                                                                82
                                                                                                            73
```

table(my\$gender)

```
##
## female male
## 483 517
```

```
str(my$reading.score)
```

```
## int [1:1000] 67 59 60 78 73 77 59 88 56 42 ...
```

#PART D #TRANSFORMING VARIABLES

```
log(my$math.score)
```

```
##
      [1] 4.204693 3.688879 4.077537 4.343805 4.356709 4.143135 4.127134 4.532599
##
      [9] 4.143135 3.850148 4.595120 4.382027 4.343805 4.304065 4.394449 4.234107
##
     [17] 4.060443 3.988984 3.135494 3.663562 4.418841 4.060443 4.262680 3.784190
##
     [25] 3.828641 3.931826 3.970292 4.262680 4.304065 3.496508 4.465908 4.356709
##
     [33] 3.688879 4.174387 4.369448 4.219508 4.043051 4.204693 4.060443 4.584967
##
     [41] 3.988984 4.343805 4.465908 4.060443 4.605170 4.094345 4.158883 4.174387
     [49] 4.219508 4.094345 4.174387 3.951244 4.304065 3.583519 4.043051 4.025352
##
##
     [57] 4.204693 4.477337 3.737670 4.219508 4.330733 4.060443 4.234107 4.343805
##
     [65] 4.418841 3.891820 4.262680 3.850148 4.369448 4.094345 4.025352 4.043051
##
     [73] 3.891820 4.369448 4.262680 4.262680 3.850148 4.276666 4.356709 3.988984
     [81] 3.828641 3.433987 3.931826 4.356709 3.465736 3.970292 4.143135 4.574711
##
##
     [89] 4.025352 4.276666 4.043051 4.304065 4.394449 4.543295 4.394449 4.060443
     [97] 4.553877 3.806662 4.143135 4.094345 3.988984 4.317488 4.369448 4.189655
##
##
    [105] 3.850148 4.248495 4.406719 4.025352 4.521789 3.401197 4.369448 3.713572
##
    [113] 4.143135 3.761200 4.343805 4.330733 3.891820 4.077537 4.077537 4.330733
##
    [121] 4.007333 4.356709 3.931826 3.713572 4.304065 4.127134 4.343805 3.806662
##
    [129] 4.605170 4.418841 4.343805 4.189655 4.174387 4.127134 4.007333 4.290459
##
    [137] 4.290459 3.871201 3.951244 4.094345 4.219508 4.174387 4.454347 4.007333
##
    [145] 4.382027 3.931826 4.143135 4.094345 4.605170 3.828641 4.204693 3.988984
##
    [153] 4.143135 4.219508 3.988984 3.761200 4.158883 4.521789 4.406719 4.430817
    [161] 4.430817 4.174387 4.418841 4.248495 4.189655 4.262680 4.189655 4.043051
##
    [169] 4.454347 4.382027 4.127134 4.262680 4.043051 4.234107 4.418841 3.912023
##
    [177] 4.007333 4.007333 4.418841 4.488636 3.931826 3.871201 4.430817 4.234107
##
##
    [185] 4.317488 4.510860 4.330733 4.143135 4.290459 3.951244 4.060443 3.496508
##
    [193] 4.219508 4.343805 4.158883 3.663562 3.912023 3.970292 3.988984 4.304065
    [201] 3.912023 4.007333 4.343805 3.891820 4.189655 4.343805 4.304065 4.442651
##
##
    [209] 4.343805 4.158883 4.110874 4.574711 4.189655 4.127134 4.158883 4.007333
##
    [217] 3.970292 4.262680 4.189655 4.219508 4.488636 4.174387 3.761200 4.369448
    [225] 4.595120 4.406719 3.555348 4.110874 4.330733 4.543295 4.317488 4.394449
##
##
    [233] 3.555348 4.330733 4.060443 4.605170 3.970292 4.406719 4.330733 4.418841
##
    [241] 4.276666 4.330733 4.189655 4.143135 3.583519 4.219508 3.688879 4.219508
    [249] 4.025352 4.304065 3.970292 4.477337 4.204693 4.094345 3.931826 3.970292
##
```

```
##
    [257] 4.382027 4.234107 4.158883 4.382027 4.060443 3.663562 4.158883 4.110874
##
    [265] 4.499810 4.290459 4.290459 4.204693 4.043051 4.174387 4.262680 4.077537
    [273] 4.304065 4.532599 4.442651 4.330733 4.060443 4.276666 3.688879 4.317488
##
##
    [281] 4.442651 4.605170 3.970292 3.688879 3.891820 4.343805 4.406719 4.007333
##
    [289] 4.127134 4.234107 4.356709 4.262680 4.077537 4.094345 3.761200 4.343805
##
    [297] 3.912023 4.025352 4.234107 3.850148 3.761200 3.871201 4.007333 4.290459
    [305] 4.262680 3.988984 4.189655 4.143135 4.189655 4.369448 4.290459 3.583519
##
    [313] 3.912023 4.465908 4.262680 4.442651 4.060443 4.454347 4.158883 4.418841
##
    [321] 4.060443 4.077537 3.688879 4.406719 4.465908 4.127134 4.330733 4.143135
##
##
    [329] 4.060443 4.110874 4.356709 4.356709 4.025352 4.564348 3.871201 4.248495
##
    [337] 3.761200 3.806662 4.060443 4.248495 4.094345 3.951244 4.110874 4.007333
##
    [345] 4.382027 4.143135 4.369448 4.304065 3.828641 4.276666 4.060443 3.850148
    [353] 4.219508 4.219508 4.174387 3.912023 3.871201 4.060443 4.262680 4.060443
##
    [361] 4.189655 3.784190 3.931826 4.356709 4.276666 4.094345 4.007333 4.158883
##
    [369] 4.043051 4.248495 4.430817 4.189655 4.025352 4.077537 4.465908 4.290459
##
    [377] 4.442651 3.891820 4.406719 4.382027 3.871201 4.442651 4.248495 4.488636
##
##
    [385] 4.276666 4.382027 3.761200 3.988984 4.406719 4.304065 4.143135 3.850148
##
    [393] 2.564949 4.204693 4.043051 4.158883 4.442651 4.248495 4.499810 3.970292
    [401] 4.304065 4.110874 4.007333 4.174387 4.343805 4.304065 4.543295 3.988984
##
    [409] 3.951244 4.290459 4.394449 4.127134 4.007333 4.007333 4.110874 4.317488
##
    [417] 4.369448 4.248495 4.276666 3.637586 4.043051 4.330733 3.806662 4.343805
##
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##
##
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##
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##
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##
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##
##
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    [481] 4.330733 4.343805 4.418841 4.262680 4.454347 4.532599 4.094345 4.043051
##
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##
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##
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##
##
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    [521] 4.488636 4.174387 4.356709 4.234107 3.891820 3.912023 4.369448 4.488636
##
##
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##
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    [545] 4.248495 4.430817 4.219508 4.025352 3.610918 3.891820 4.605170 4.418841
##
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##
##
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##
##
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##
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##
##
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    [609] 4.158883 4.488636 4.060443 4.143135 3.988984 4.418841 4.043051 3.951244
##
    [617] 4.317488 4.204693 4.060443 4.143135 3.891820 3.637586 4.304065 4.234107
##
##
    [625] 4.343805 3.688879 4.564348 4.442651 4.442651 4.276666 4.143135 4.060443
```

```
[633] 4.060443 3.931826 4.605170 4.343805 4.143135 4.158883 4.605170 4.189655
##
##
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    [649] 4.442651 3.401197 4.406719 4.394449 4.521789 3.912023 3.988984 4.330733
##
##
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##
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##
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##
    [689] 3.988984 3.583519 4.543295 4.219508 4.499810 4.043051 4.564348 4.219508
##
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##
##
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    [713] 3.891820 4.077537 4.158883 4.290459 4.406719 3.871201 3.931826 3.637586
##
##
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    [729] 4.043051 3.218876 4.499810 4.143135 4.605170 4.330733 3.951244 4.394449
##
    [737] 4.499810 4.418841 4.110874 4.369448 3.951244 4.127134 4.442651 4.304065
##
##
    [745] 4.418841 4.356709 3.713572 4.343805 4.553877 3.912023 4.304065 4.304065
    [753] 4.248495 4.110874 4.543295 4.189655 4.418841 4.317488 4.025352 4.189655
##
##
    [761] 4.110874 4.248495 4.043051 4.356709 4.127134 4.158883 4.007333 4.276666
##
    [769] 3.891820 4.127134 4.330733 4.290459 4.276666 4.442651 4.262680 3.332205
    [777] 3.713572 4.356709 3.871201 3.637586 4.510860 4.262680 4.430817 4.143135
##
    [785] 4.248495 3.871201 4.219508 4.430817 4.110874 4.127134 4.189655 3.951244
##
    [793] 4.219508 4.127134 4.499810 3.737670 4.304065 4.127134 4.025352 4.158883
##
    [801] 4.369448 3.784190 4.234107 3.970292 4.304065 3.891820 4.043051 4.110874
##
##
    [809] 4.174387 3.931826 3.891820 4.025352 4.174387 4.248495 4.510860 3.871201
    [817] 4.543295 4.343805 4.077537 4.043051 4.330733 4.174387 4.317488 4.248495
##
    [825] 4.369448 4.605170 4.418841 4.248495 4.574711 3.496508 3.637586 3.828641
##
    [833] 2.564949 4.442651 4.369448 4.330733 3.970292 4.219508 4.204693 4.605170
##
    [841] 3.988984 4.276666 4.510860 4.465908 4.189655 4.174387 3.713572 4.204693
##
##
    [849] 4.543295 4.043051 4.488636 4.343805 4.043051 4.276666 4.584967 4.465908
    [857] 4.110874 4.442651 4.394449 4.304065 4.584967 4.454347 4.442651 4.219508
##
    [865] 4.189655 4.317488 4.369448 4.077537 4.094345 4.234107 3.891820 4.127134
##
##
    [873] 4.248495 4.262680 4.262680 3.912023 3.951244 4.317488 3.931826 4.158883
    [881] 4.174387 4.595120 4.094345 4.248495 4.343805 3.610918 4.290459 3.970292
##
##
    [889] 4.204693 4.204693 3.931826 4.158883 4.007333 4.007333 4.454347 4.262680
    [897] 4.262680 3.931826 4.317488 3.806662 4.077537 4.158883 4.356709 4.077537
##
##
    [905] 4.382027 4.219508 4.343805 4.189655 3.258097 4.382027 3.871201 3.951244
    [913] 3.988984 4.077537 4.343805 4.158883 4.418841 4.248495 4.276666 4.418841
##
    [921] 3.951244 3.970292 4.007333 4.174387 4.094345 4.158883 4.262680 4.110874
##
    [929] 4.110874 4.174387 4.262680 3.871201 4.317488 3.988984 4.248495 4.510860
##
##
    [937] 3.496508 3.806662 3.806662 4.127134 4.521789 4.304065 4.394449 4.330733
    [945] 4.043051 4.143135 4.043051 3.828641 3.891820 3.988984 4.488636 4.343805
##
##
    [953] 3.828641 4.189655 3.871201 4.418841 4.234107 4.290459 3.761200 4.510860
##
    [961] 3.891820 4.465908 3.828641 4.143135 4.605170 4.454347 4.007333 4.430817
    [969] 3.663562 4.204693 4.442651 4.158883 4.394449 4.356709 4.077537 4.304065
##
##
    [977] 3.433987 3.988984 3.931826 4.043051 3.663562 4.158883 4.234107 4.060443
    [985] 4.143135 4.304065 4.356709 4.356709 4.317488 4.248495 4.204693 4.465908
##
    [993] 4.234107 4.060443 4.454347 4.290459 4.442651 3.465736 4.290459 4.174387
##
```

log(my\$writing.score)

```
##
      [1] 4.143135 4.007333 3.912023 4.219508 4.219508 4.330733 4.143135 4.430817
##
      [9] 4.174387 3.806662 4.442651 4.499810 4.442651 4.290459 4.442651 4.043051
##
     [17] 3.737670 4.174387 3.784190 3.433987 4.477337 4.007333 4.290459 3.988984
##
     [25] 3.465736 3.737670 4.025352 4.094345 4.488636 3.931826 4.343805 4.290459
##
     [33] 3.663562 4.262680 4.488636 4.304065 4.317488 3.988984 4.290459 4.343805
##
     [41] 4.276666 4.158883 4.406719 4.248495 4.465908 3.931826 4.043051 4.356709
     [49] 4.290459 4.043051 4.158883 4.094345 4.442651 3.891820 3.850148 4.127134
##
##
     [57] 4.430817 4.418841 3.931826 3.871201 4.219508 4.077537 4.127134 4.356709
##
     [65] 4.574711 4.248495 4.025352 3.891820 4.094345 4.043051 4.290459 3.850148
     [73] 4.143135 4.394449 4.204693 4.248495 4.077537 4.394449 4.330733 3.806662
##
     [81] 4.127134 3.737670 4.077537 4.290459 3.663562 4.234107 4.234107 4.477337
##
     [89] 4.110874 4.276666 3.737670 4.248495 4.465908 4.532599 4.276666 4.204693
##
     [97] 4.605170 3.891820 3.891820 3.970292 4.127134 4.369448 4.343805 4.204693
##
##
    [105] 4.060443 4.406719 4.290459 3.784190 4.262680 3.496508 4.454347 3.850148
##
    [113] 4.262680 3.496508 4.304065 4.330733 4.143135 4.007333 4.060443 4.465908
    [121] 4.262680 4.488636 4.127134 3.806662 4.454347 4.060443 4.158883 3.806662
##
##
    [129] 4.465908 4.605170 4.406719 4.158883 4.043051 4.025352 3.988984 4.234107
    [137] 4.330733 4.219508 3.891820 4.158883 4.043051 4.418841 4.465908 4.094345
##
##
    [145] 4.219508 4.043051 4.189655 3.828641 4.605170 3.784190 4.382027 4.077537
##
    [153] 4.330733 4.290459 4.060443 3.850148 4.077537 4.465908 4.532599 4.369448
    [161] 4.574711 4.174387 4.510860 4.317488 4.248495 4.521789 4.060443 4.219508
##
##
    [169] 4.532599 4.418841 4.077537 4.330733 4.262680 4.127134 4.276666 4.094345
    [177] 4.025352 3.931826 4.553877 4.454347 4.158883 3.891820 4.488636 4.330733
##
##
    [185] 4.465908 4.595120 4.204693 4.077537 4.158883 3.970292 3.970292 3.931826
##
    [193] 4.110874 4.488636 4.189655 3.871201 3.871201 3.931826 4.248495 4.174387
    [201] 4.174387 3.850148 4.248495 4.204693 4.406719 4.317488 4.430817 4.394449
##
##
    [209] 4.430817 4.189655 4.219508 4.442651 4.248495 4.158883 4.343805 4.094345
##
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##
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##
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h<-my\$math.score-my\$writing.score - min(my\$reading.score)/max(my\$writing.score)
h</pre>

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                                                                    8.73 - 2.27
                                                                                    1.73
##
     [11] 13.73 -10.27 -8.27
                                    0.73
                                          -4.27 11.73 15.73 -11.27 -21.27
                                                                                    7.73
                     2.73 - 2.27 - 10.27
                                          13.73
                                                    8.73 -3.27
##
     [21] -5.27
                                                                  10.73 -15.27 -18.27
##
             9.73
                     4.73
                             0.73 \quad -6.27 \quad -10.27 \quad -6.27 \quad -18.27 \quad 12.73 \quad -15.27
                                                                                  20.73
     [31]
                   12.73
                            4.73 -12.27 12.73
                                                    8.73
                                                            6.73 - 13.27
                                                                                    2.73
##
     [41] -18.27
                                                                          -5.27
                                            9.73 -6.27 -17.27
##
             0.73
                   -8.27 -11.27 -13.27
                                                                    4.73 - 9.27
                                                                                  19.73
     [51]
##
     [61]
             7.73
                   -1.27
                             6.73 \quad -1.27 \quad -14.27 \quad -21.27 \quad 14.73 \quad -2.27
                                                                          18.73
                                                                                    2.73
                   9.73 -14.27 -2.27 3.73 0.73 -12.27 -9.27
##
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                                                                           1.73
                                                                                    8.73
```

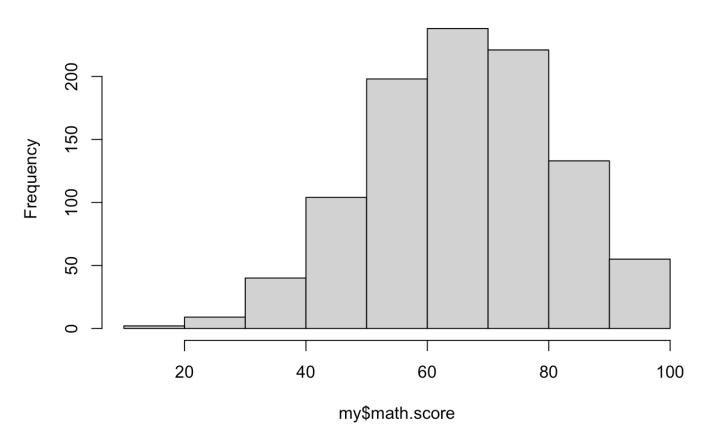
-6.27 ## [81] -16.27 -11.27 -8.274.73 -7.27 - 16.278.73 -5.27 -0.27## [91] 14.73 -6.27 0.73 8.73 -9.27 -5.27 -4.2713.73 6.73 3.73 1.73 -3.27## [101] -8.27-4.27-1.27 -11.27 -12.278.73 11.73 20.73 ## -7.27 -6.27-8.27 9.73 2.73 -0.27 - 14.273.73 0.73 - 11.27[111]-4.27 - 12.27## [121] -16.27 -11.27 -11.27 3.73 12.73 -0.2712.73 -17.27 ## -5.27 1.73 7.73 5.73 0.73 3.73 -3.27 - 20.272.73 -4.27[131] -6.27 -0.271.73 ## [141] 10.73 - 18.27-1.27-5.2711.73 -3.2713.73 -4.27## [151] -13.27-5.27 - 13.27-5.27-4.274.73 4.73 - 11.274.73 [161] -13.27 ## -0.27-8.27 -5.27 -4.27 - 21.277.73 - 11.27-7.27 -3.27## [171] 2.73 -5.27 -14.276.73 10.73 - 10.27-1.273.73 - 12.272.73 ## [181] -13.27-1.27-5.27 -7.27 - 12.27-8.27 8.73 3.73 8.73 -1.274.73 -18.27 6.73 - 12.27-2.27-9.27 1.73 1.73 -16.27 8.73 ## [191] ## [201] -15.27 7.73 6.73 - 18.27 - 16.271.73 - 10.273.73 -7.27-2.27-6.27 5.73 ## -7.27 11.73 -4.27-2.27 - 13.27-5.27 -13.27-2.27 [211] ## [221] 5.73 -9.27 -1.27-4.271.73 9.73 -4.27 - 12.27-5.27 11.73 3.73 - 24.279.73 -11.27 -14.27 11.73 7.73 ## [231] -3.2710.73 1.73 ## [241] -10.27-7.27 7.73 -0.277.73 -3.27-2.276.73 3.73 -6.27## [251] -18.27 17.73 5.73 -5.27-3.27-6.275.73 1.73 -6.27-9.27## -4.27 - 11.2713.73 -2.27 1.73 8.73 2.73 - 10.27-5.27 -7.27[261] -7.27 -5.27 ## -0.27 - 13.278.73 -0.27-3.27 - 12.27-7.27 8.73 [271] -0.27 - 13.270.73 -0.27-3.27-2.2712.73 -15.27 9.73 ## [281] 4.73 -9.27 3.73 7.73 ## [291] 1.73 -11.27 -7.27 -10.27 -17.27 3.73 18.73 ## [301] 18.73 7.73 5.73 6.73 4.73 -6.272.73 -4.27-7.273.73 ## [311] 2.73 - 17.276.73 6.73 7.73 -9.27 -6.274.73 - 25.273.73 -3.27 -2.27 -2.27 ## [321] 8.73 -22.27 -14.27 6.73 2.73 -1.27-4.2712.73 7.73 -2.27 - 15.27-4.27## [331] 6.73 -3.2713.73 -4.27 - 10.27## [341] 1.73 4.73 6.73 -6.270.73 8.73 -8.271.73 -18.27 -20.27 ## -6.27 -0.27 - 16.270.73 -3.27-1.27 - 20.27-6.27 2.73 9.73 [351] 0.73 6.73 -7.27 -5.27-0.27## [361] -17.27 0.73 - 15.27-3.27-4.27-4.27## [371] 7.73 - 10.27 - 17.272.73 2.73 8.73 6.73 -8.27 - 10.27-9.27 7.73 -7.27 -7.27 -7.27 -7.27 ## [381] 4.73 -6.273.73 -4.272.73 -19.27 -15.27 -16.27 -4.27 -10.2710.73 ## [391] -1.276.73 - 16.27-6.27 - 18.27-1.27 -2.27 17.73 8.73 -14.27 8.73 1.73 ## [401] -1.2722.73 -10.27 -6.27-6.27-0.2710.73 19.73 1.73 12.73 4.73 ## [411] ## 5.73 6.73 2.73 9.73 -0.27-3.279.73 7.73 11.73 [421] -6.27## [431] -3.2714.73 -11.27 -15.27 0.73 -0.27-1.278.73 0.73 0.73 [441] ## -9.27 - 14.2713.73 19.73 -2.27-4.2711.73 8.73 3.73 -5.2713.73 -12.27 4.73 -0.27 -11.27## [451] -9.27 12.73 -3.273.73 -3.27## 7.73 - 22.27-2.27 -11.278.73 -8.27 - 16.27-6.2719.73 [461] -0.27-2.27-0.2711.73 8.73 -0.2716.73 ## [471] -5.270.73 8.73 1.73 ## [481] -8.27 -6.27-0.27 -11.27-3.27-3.27-0.27-1.279.73 -9.27## 10.73 - 19.27-8.27-1.274.73 17.73 -2.274.73 -7.277.73 [491] 11.73 4.73 -10.27 1.73 22.73 -10.27 11.73 ## [501] -10.27 -5.27 -7.27## [511] 9.73 3.73 6.73 - 18.272.73 13.73 5.73 16.73 -2.27 - 15.276.73 - 17.276.73 -9.27 0.73 - 16.277.73 -8.27 - 11.27## [521] ## -7.27 -11.27 -11.27 -12.27 -8.27 19.73 -16.27 -6.277.73 [531] -0.27## [541] -2.27-4.272.73 - 15.277.73 4.73 5.73 -6.27-1.27

-0.27 ## -0.2717.73 -6.27 4.73 -1.27 -11.276.73 - 16.27## [561] -17.27 -0.27 - 16.27-8.27 -20.27-6.2712.73 -25.27 1.73 3.73 12.73 -15.27 -6.27-1.275.73 ## [571] 6.73 - 13.27-9.27-3.27-3.27## [581] 1.73 0.73 - 23.270.73 11.73 -11.27 -15.27 -11.27 -5.27 - 19.27## [591] 5.73 - 10.27-3.27-0.27-6.27-8.27 - 15.27-8.271.73 - 13.27-7.27 ## [601] -16.27-2.27-2.27 -11.277.73 4.73 6.73 13.73 18.73 -7.27 3.73 -22.27 2.73 4.73 ## [611] 3.73 -15.27 -15.27 0.73 -5.27-3.27 - 19.27## -8.27 -14.27 -10.27 -13.27 -4.27-0.278.73 17.73 [621] 6.73 0.73 ## [631] -10.27-0.273.73 -2.27-0.27 - 15.27-4.2719.73 ## [641] 2.73 3.73 3.73 -1.27-9.27 -5.27-1.27-8.27-6.27 - 10.27-2.27 -14.27 -21.27 ## [651] 10.73 10.73 -5.27 13.73 -2.27 7.73 3.73 -7.27 - 16.27-3.27 - 12.27-8.27 -9.27 -22.27 1.73 18.73 12.73 ## [661] ## 13.73 -11.27 -11.27 -16.27 2.73 9.73 0.73 -5.27-9.27 14.73 [671] 10.73 1.73 -15.27 6.73 - 17.279.73 ## [681] 8.73 -6.27 6.73 -1.27## [691] 1.73 - 12.275.73 3.73 5.73 5.73 -11.27 16.73 -4.27 - 16.2713.73 1.73 -0.27-1.27## [701] 6.73 -0.273.73 - 11.279.73 ## [711] -3.2719.73 7.73 0.73 - 11.2713.73 -8.27 6.73 - 11.27-5.27 ## [721] 2.73 -12.27 -11.27 3.73 2.73 -0.27-6.278.73 -4.27 - 12.27## [731] 8.73 -8.27 13.73 9.73 -1.27 - 12.272.73 1.73 -8.27 3.73 4.73 5.73 0.73 - 10.273.73 -16.27 ## [741] 0.73 -5.27 0.73 - 21.273.73 - 19.278.73 6.73 -6.27 - 11.27 - 10.2714.73 -7.27 - 17.27## [751] -5.27 14.73 -10.27 -11.27 ## [761] -5.27 -3.273.73 - 12.276.73 -1.27## [771] 7.73 - 12.27-6.278.73 5.73 -3.272.73 9.73 3.73 -9.27## [781] -9.27 -9.27-8.27-0.27 - 17.27-9.27 -5.27-3.270.73 -0.27-5.27 -2.27 -15.27 0.73 ## [791] -17.27 -19.27 -9.27 5.73 5.73 9.73 [801] -1.27 - 19.27 - 18.2712.73 0.73 - 14.27## 4.73 -3.27 - 19.27-1.272.73 -16.27 -6.27 ## [811] 7.73 -0.271.73 7.73 3.73 -16.27 -13.27 ## 1.73 0.73 -8.27 4.73 8.73 -0.27 - 16.27-8.27 8.73 -2.27[821] 6.73 -1.27-3.27 - 12.274.73 -3.2711.73 ## [831] -3.27-1.27 - 24.27-8.27 0.73 - 12.27## [841] 8.73 1.73 -4.270.73 1.73 7.73 - 11.27-0.272.73 - 13.275.73 -12.27 -10.27 -5.27## [851] 8.73 -3.276.73 2.73 4.73 -11.27 3.73 20.73 -23.27 14.73 ## [861] 7.73 -3.271.73 ## 9.73 -13.27 10.73 5.73 -4.27 -5.27 8.73 -12.27 13.73 [871] -9.27 -7.27 11.73 1.73 - 10.27-0.2713.73 11.73 -22.27 4.73 - 13.27## [881] ## 0.73 -6.2711.73 3.73 7.73 - 14.276.73 - 18.27 - 10.2717.73 [891] ## [901] 10.73 -4.274.73 0.73 8.73 -9.27 -2.27 1.73 - 20.2710.73 ## [911] -13.27 -3.27 -10.27-8.2711.73 -5.27 14.73 0.73 4.73 3.73 -4.274.73 1.73 -4.272.73 -14.27 ## [921] -5.27 -21.27 -0.273.73 ## 3.73 -0.27 - 11.274.73 18.73 -17.27 3.73 12.73 4.73 [931] -18.27 9.73 - 16.277.73 - 16.27 - 18.273.73 -11.27 ## [941] 14.73 -5.27-2.27## [951] -1.27-1.27 -14.27-4.27-5.27 1.73 -5.27 18.73 -16.27 ## -6.272.73 1.73 -8.2713.73 -3.27 -15.27 -15.27 -9.2714.73 [961] ## [971] -12.27 19.73 6.73 10.73 0.73 3.73 -4.27 - 11.275.73 - 11.27## [981] -10.27 15.73 -3.2710.73 -12.27 6.73 0.73 3.73 -6.274.73 -1.272.73 -0.2710.73 7.73 -7.27-9.27 -9.272.73 ## [991] 13.73

#PART E #PLOTTING THE VARIABLE

hist(my\$math.score,main="HISTOGRAM OF math.score")

HISTOGRAM OF math.score



#PART F #SCATTER PLOT

plot(my\$math.score,my\$reading.score,main="scatterplot")

scatterplot

