

ThompsonLab3_Report

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This document goes through the R exercises (1-4) we did in class for Chapter 8 part 2 in which we practice adding and eliminating rows and columns from the data set: Test_V_output.csv.

Exercise 1: Rows and Columns

The total score column was assigned as a vector tot_score. I chose to calculate the total score for row 3, resulting in 340 as the answer. I also looked for what molecules were interacting and found them to be a protein and gem which underwent phosphorylation.

```
Test_V_output <- read.csv("/cloud/project/Test_V_output.csv")

tot_score<-Test_V_output$Total.Score
tot_score[3]
```

```
## [1] 340
```

Exercise 2: Mean and Standard Deviation

I found the mean and standard deviation of the total scores in the set using the following code. The mean resulted in 63.79919 and the standard deviation was 55.29295.

```
mean(tot_score)
```

```
## [1] 63.79919
```

```
sd(tot_score)
```

```
## [1] 55.29295
```

Exercise 3: Vectorization

This section is calculating the total score based off of the combination of the kind scores, evidence scores, match scores, and epistemic values. new_tot was named as a new vector.

```
new_tot = (Test_V_output$Kind.Score+(Test_V_output$Evidence.Score*Test_V_output$Match.Score))
```

Exercise 4: Subsets

For this section, the locations, cell type, and organism columns were deleted and only the top 100 scored interactions were kept.

```
Test_V_output<-Test_V_output[,!names(Test_V_output)%in% c("Location","Organism","Cell.Type")]
Test_V_output[1:100,]
```

##	X	Target.Name	Target.Type	Target.ID
## 1	43	akt protein family protein	complex	akt
## 2	649	p53	protein	p04637
## 3	92	atm	protein	q13315
## 4	920	src protein family protein	complex	src
## 5	966	tsc2	protein	p49815
## 6	242	chk1	protein	o14757
## 7	243	chk1	protein	o14757
## 8	662	p53	protein	p04637
## 9	237	chk1	protein	o14757
## 10	618	p21	protein	p38936
## 11	741	pi3k protein family protein	complex	pi3k
## 12	912	src protein family protein	complex	src
## 13	244	chk1	protein	o14757
## 14	392	gsk3 protein family protein	complex	gsk3
## 15	650	p53	protein	p04637
## 16	261	chk2	protein	o96017
## 17	964	tsc2	protein	p49815
## 18	543	mtorc1 protein family protein	complex	mtorc1
## 19	384	gsk-3beta	protein	p49841
## 20	382	gsk-3alpha	protein	p49840
## 21	263	cip1	protein	p38936
## 22	255	chk2	protein	o96017
## 23	257	chk2	protein	o96017
## 24	254	chk2	protein	o96017
## 25	253	chk2	protein	o96017
## 26	262	chk2	protein	o96017
## 27	681	p53	protein	p04637
## 28	670	p53	protein	p04637
## 29	680	p53	protein	p04637
## 30	672	p53	protein	p04637
## 31	673	p53	protein	p04637
## 32	674	p53	protein	p04637
## 33	249	chk2	protein	o96017
## 34	179	caspase 3	protein	p42574
## 35	180	caspase 8	protein	q14790
## 36	739	pi3k protein family protein	complex	pi3k
## 37	490	mdm2	protein	q00987
## 38	656	p53	protein	p04637
## 39	239	chk1	protein	o14757
## 40	226	cdk4	protein	p11802
## 41	657	p53	protein	p04637
## 42	654	p53	protein	p04637
## 43	420	hif-1alpha protein	protein	q16665
## 44	652	p53	protein	p04637
## 45	418	hif-1alpha	protein	q16665
## 46	406	gsk3beta	protein	p49841
## 47	404	gsk3beta	protein	p49841
## 48	540	mtorc1 protein family protein	complex	mtorc1
## 49	443	irs	protein family	pf02174
## 50	494	mdm2	protein	q00987
## 51	499	mdm2	protein	q00987
## 52	523	mtor	protein	p42345
## 53	928	stat3	protein	p40763

## 54	925	stat3	protein	p40763
## 55	924	stat3	protein	p40763
## 56	629	p27 kip1	protein	p46527
## 57	630	p27 kip1	protein	p46527
## 58	631	p27 kip1	protein	p46527
## 59	632	p27 kip1	protein	p46527
## 60	633	p27 kip1	protein	p46527
## 61	319	erk	protein family protein complex	erk
## 62	640	p38	protein family protein complex	p38
## 63	628	p27 kip1	protein	p46527
## 64	393	gsk3	protein family protein complex	gsk3
## 65	350	fos	protein family protein complex	fos_family
## 66	245	chk1	protein	o14757
## 67	491	mdm2	protein	q00987
## 68	67	akt1	protein	p31749
## 69	865	s6	protein family	ipr000529
## 70	789	rad53	protein	o96017
## 71	790	rad53	protein	o96017
## 72	791	rad53	protein	o96017
## 73	863	s6	protein family	ipr000529
## 74	82	arf	protein	q8n726
## 75	84	arf	protein	q8n726
## 76	89	atm	protein	q13315
## 77	110	bcl-2	protein	p10415
## 78	109	bcl-2	protein	p10415
## 79	94	atm	protein	q13315
## 80	788	rad53	protein	o96017
## 81	779	puma	protein	q96pg8
## 82	48	akt	protein family protein complex	akt
## 83	47	akt	protein family protein complex	akt
## 84	46	akt	protein family protein complex	akt
## 85	98	atm	protein	q13315
## 86	646	p53	protein	p04637
## 87	419	hif-1alpha	protein	q16665
## 88	301	egfr	protein	p00533
## 89	193	caspase-9	protein	p55211
## 90	296	egfr	protein	p00533
## 91	252	chk2	protein	o96017
## 92	661	p53	protein	p04637
## 93	521	mtor	protein	p42345
## 94	40	akt	protein family protein complex	akt
## 95	41	akt	protein family protein complex	akt
## 96	888	smad	protein family protein complex	smad
## 97	218	cdk4	protein	p11802
## 98	796	raf-1	protein	p04049
## 99	797	raf-1	protein	p04049
## 100	663	p53	protein	p04637
##		Location.ID	Cell.Line	
## 1		nan	nan	
## 2		nan	cellosaurus:cvcl_9771	
## 3		nan	nan	
## 4		go:0009986	cellosaurus:cvcl_0022	
## 5		go:0005856	nan	
## 6		nan	nan	

## 7	nan	nan
## 8	nan	nan
## 9	go:0005737	nan
## 10	nan	nan
## 11	go:0005886	nan
## 12	nan cellosaurus:cvcl_0045	
## 13	nan	nan
## 14	nan	nan
## 15	nan cellosaurus:cvcl_9771	
## 16	go:0005813	nan
## 17	nan	nan
## 18	nan	nan
## 19	nan cellosaurus:cvcl_4461	
## 20	nan cellosaurus:cvcl_4461	
## 21	nan cellosaurus:cvcl_0060	
## 22	nan	nan
## 23	go:0005634 cellosaurus:cvcl_0031	
## 24	nan	nan
## 25	nan	nan
## 26	sl-0276	nan
## 27	nan uaz:cvcl_9115	
## 28	nan	nan
## 29	nan uaz:cvcl_9115	
## 30	nan	nan
## 31	nan	nan
## 32	nan	nan
## 33	nan	nan
## 34	nan cellosaurus:cvcl_0042	
## 35	nan	nan
## 36	nan	nan
## 37	nan	nan
## 38	nan	nan
## 39	nan cellosaurus:cvcl_0062	
## 40	nan	nan
## 41	nan	nan
## 42	nan	nan
## 43	nan cellosaurus:cvcl_0035	
## 44	nan cellosaurus:cvcl_w397	
## 45	nan cellosaurus:cvcl_1905	
## 46	nan uaz:cvcl_9115	
## 47	nan	nan
## 48	nan	nan
## 49	nan	nan
## 50	nan	nan
## 51	go:0005634 +++++ go:go:0005730 cellosaurus:cvcl_0030	
## 52	nan cellosaurus:cvcl_m034	
## 53	go:0005737 +++++ go:go:0042641	nan
## 54	go:0005634	nan
## 55	go:0005737	nan
## 56	nan cellosaurus:cvcl_0102	
## 57	nan cellosaurus:cvcl_0102	
## 58	nan	nan
## 59	nan uaz:cvcl_9115	
## 60	go:0005634 cellosaurus:cvcl_0102	

## 61	nan	cellosaurus:cvcl_1905
## 62	nan	nan
## 63	nan	cellosaurus:cvcl_0102
## 64	nan	nan
## 65	nan	nan
## 66	nan	nan
## 67	nan	nan
## 68	nan	nan
## 69	nan	nan
## 70	nan	cellosaurus:cvcl_6353
## 71	nan	cellosaurus:cvcl_6353
## 72	nan	nan
## 73	nan	cellosaurus:cvcl_1905
## 74	go:0005737	nan
## 75	nan	nan
## 76	nan	nan
## 77	nan	nan
## 78	nan	nan
## 79	nan	nan
## 80	nan	cellosaurus:cvcl_6353
## 81	nan	nan
## 82	nan	nan
## 83	nan	nan
## 84	nan	nan
## 85	sl-0276	nan
## 86	nan	cellosaurus:cvcl_0060
## 87	nan	nan
## 88	go:0016020	cellosaurus:cvcl_s979
## 89	go:0005739	nan
## 90	nan	cellosaurus:cvcl_0045
## 91	nan	nan
## 92	nan	nan
## 93	nan	cellosaurus:cvcl_0031
## 94	nan	nan
## 95	nan	nan
## 96	go:0009986	nan
## 97	go:0005737	nan
## 98	go:0016020	nan
## 99	go:0016020	nan
## 100	nan	nan
##	Source.Name	
## 1	mtorc2	
## 2	p300	
## 3	gem	
## 4	pkcdelta	
## 5	rsk	
## 6	atr	
## 7	atr	
## 8	cbp	
## 9	cdk1	
## 10	cdk7	
## 11	egfr*1, grb2-associated binder	1*1+
## 12	ep2	
## 13	gem	

```

## 14          nan
## 15          p300
## 16      polo-like kinase-3
## 17          ppargamma
## 18          rheb
## 19      rsk1*1, epidermal growth factor*1+
## 20      rsk1*1, epidermal growth factor*1+
## 21          twist1
## 22          wip1
## 23          wip1
## 24          smrt
## 25          dbc1
## 26          trf2
## 27          wip1
## 28          dbc1
## 29          pp1
## 30      myr-akt
## 31          pp1
## 32          smrt
## 33          wip1
## 34          smrt
## 35      c-flip
## 36          shp2
## 37          atr
## 38          pp1
## 39          wip1
## 40          p27
## 41          pp1
## 42          iaspp
## 43          foxo4
## 44          cape
## 45          p27
## 46          pyk2
## 47          apc
## 48      deptor
## 49          shp2
## 50          wip1
## 51          npm
## 52          rheb
## 53          pdgfr
## 54          rig-i
## 55          pdgfr
## 56          skip2
## 57          skip2
## 58          skip2
## 59          skip2
## 60      galectin-3
## 61          p27
## 62          smrt
## 63      galectin-3
## 64          pi3k-akt
## 65          smrt
## 66          pp1
## 67          atrx

```

```

## 68                                phlpp2
## 69                                p27
## 70                                ptc2
## 71                                ptc3
## 72                                ptc3
## 73                                p27
## 74                                npm
## 75                                bmi1
## 76                                wip1
## 77                                tgf-beta
## 78                                creb
## 79                                smrt
## 80                                pp2c
## 81                                dbc1
## 82                                shp2
## 83                                phlpp2
## 84                                phlpp1
## 85                                trf2
## 86                                14-3-3
## 87                                akt1
## 88                                amphiregulin
## 89                                apaf-1
## 90                                arrestin1
## 91                                atr
## 92                                atr
## 93                                atr
## 94                                atr
## 95                                atr
## 96                                bmp
## 97                                cak
## 98    calcium/calmodulin-dependent protein kinase ii
## 99                                camk-ii
## 100                               ccar2
##                                Source.Type    Source.ID Source.Location
## 1    protein family|protein complex    mtorc2         nan
## 2                                protein    q09472         nan
## 3                                protein    p55040         nan
## 4                                protein    p83099         other
## 5    protein family|protein complex      rsk         other
## 6                                protein    p20848         nan
## 7                                protein    p20848         nan
## 8                                protein    q92793         nan
## 9                                protein    p06493         cytoplasm
## 10                               protein    p50613         nan
## 11                               protein, protein p00533, q13480.p plasma membrane
## 12                                protein    q08648         nan
## 13                                protein    p55040         nan
## 14                                nan        nan         nan
## 15                                protein    q09472         nan
## 16                                protein    q9h4b4         other
## 17                                protein    p37231         nan
## 18                                protein    q15382         nan
## 19                               protein, protein q15418, p01133         nan
## 20                               protein, protein q15418, p01133         nan

```

## 21	protein	q15672	nan
## 22	protein	o15297	nan
## 23	protein	o15297	nucleus
## 24	protein	q9y618	nan
## 25	protein	o60477	nan
## 26	protein	p62380	other
## 27	protein	o15297	nan
## 28	protein	o60477	nan
## 29	protein family protein complex	ppp1	nan
## 30	protein	p54644	nan
## 31	protein family protein complex	ppp1	nan
## 32	protein	q9y618	nan
## 33	protein	o15297.t	nan
## 34	protein	q9y618	nan
## 35	protein	o15519	nan
## 36	protein	q06124	nan
## 37	protein	p20848	nan
## 38	protein family protein complex	ppp1	nan
## 39	protein	o15297	nan
## 40	protein	p40305	nan
## 41	protein family protein complex	ppp1	nan
## 42	protein	q8wuf5	nan
## 43	protein	p98177	nan
## 44	protein	o95347	nan
## 45	protein	p40305	nan
## 46	protein	q14289	nan
## 47	protein	p25054.d	nan
## 48	protein	q8tb45	nan
## 49	protein	q06124	nan
## 50	protein	o15297	nan
## 51	protein	p06748	other
## 52	protein	q15382	nan
## 53	protein family protein complex	pdgfr	other
## 54	protein	o95786	nucleus
## 55	protein family protein complex	pdgfr	cytoplasm
## 56	protein	q13309	nan
## 57	protein	q13309.t	nan
## 58	protein	q13309	nan
## 59	protein	q13309.t	nan
## 60	protein	p17931.t	nucleus
## 61	protein	p40305	nan
## 62	protein	q9y618	nan
## 63	protein	p17931	nan
## 64	protein family protein complex	akt	nan
## 65	protein	q9y618	nan
## 66	protein family protein complex	ppp1	nan
## 67	protein	p46100	nan
## 68	protein	q6zvd8	nan
## 69	protein	p40305.t	nan
## 70	protein	q9y6c5	nan
## 71	protein	p34221	nan
## 72	protein	p34221	nan
## 73	protein	p40305	nan
## 74	protein	p06748	cytoplasm

## 75	protein	p35226	nan
## 76	protein	o15297.t	nan
## 77	protein family protein complex	tgfb	nan
## 78	protein family protein complex	creb.p	nan
## 79	protein	q9y618	nan
## 80	protein family	pf00481	nan
## 81	protein	o60477	nan
## 82	protein	q06124	nan
## 83	protein	q6zvd8	nan
## 84	protein	o60346	nan
## 85	protein	p62380	other
## 86	protein family	pf00244	nan
## 87	protein	p31749.t	nan
## 88	protein	p15514	other
## 89	protein	o14727	mitochondria
## 90	protein	p51486	nan
## 91	protein	p20848	nan
## 92	protein	p20848	nan
## 93	protein	p20848	nan
## 94	protein	p20848	nan
## 95	protein	p20848	nan
## 96	protein family	pf02608	other
## 97	protein	p50613	cytoplasm
## 98	protein	p22517	other
## 99	protein family protein complex	camk2_complex	other
## 100	protein	q8n163.p@t454	nan
##	Source.Location.ID	Sign	Connection.Type
## 1	nan	positive	d
## 2	nan	positive	d
## 3	nan	positive	i
## 4	go:0009986	positive	d
## 5	go:0005856	negative	i
## 6	nan	positive	d
## 7	nan	positive	i
## 8	nan	positive	d
## 9	go:0005737	positive	d
## 10	nan	positive	i
## 11	go:0005886	positive	i
## 12	nan	positive	i
## 13	nan	positive	i
## 14	nan	positive	i
## 15	nan	positive	i
## 16	go:0005813	positive	d
## 17	nan	positive	i
## 18	nan	positive	i
## 19	nan	positive	i
## 20	nan	positive	i
## 21	nan	positive	i
## 22	nan	negative	d
## 23	go:0005634	negative	d
## 24	nan	negative	d
## 25	nan	negative	i
## 26	sl-0276	negative	i
## 27	nan	negative	d

## 28	nan negative	i
## 29	nan negative	d
## 30	nan negative	i
## 31	nan negative	i
## 32	nan negative	d
## 33	nan negative	i
## 34	nan negative	i
## 35	nan negative	i
## 36	nan negative	i
## 37	nan negative	i
## 38	nan negative	i
## 39	nan negative	d
## 40	nan negative	i
## 41	nan negative	i
## 42	nan negative	i
## 43	nan negative	i
## 44	nan negative	i
## 45	nan negative	i
## 46	nan negative	i
## 47	nan negative	i
## 48	nan negative	i
## 49	nan negative	i
## 50	nan negative	d
## 51	go:0005634 ++++ go:go:0005730 negative	i
## 52	nan negative	i
## 53	go:0005737 ++++ go:go:0042641 negative	i
## 54	go:0005634 negative	i
## 55	go:0005737 negative	i
## 56	nan negative	i
## 57	nan negative	i
## 58	nan negative	i
## 59	nan negative	i
## 60	go:0005634 negative	i
## 61	nan negative	i
## 62	nan negative	d
## 63	nan negative	i
## 64	nan negative	i
## 65	nan negative	i
## 66	nan negative	d
## 67	nan negative	i
## 68	nan negative	d
## 69	nan negative	i
## 70	nan negative	i
## 71	nan negative	i
## 72	nan negative	i
## 73	nan negative	i
## 74	go:0005737 negative	i
## 75	nan negative	i
## 76	nan negative	i
## 77	nan negative	i
## 78	nan negative	i
## 79	nan negative	d
## 80	nan negative	i
## 81	nan negative	i

## 82	nan negative	i
## 83	nan negative	i
## 84	nan negative	i
## 85	sl-0276 negative	i
## 86	nan positive	i
## 87	nan positive	i
## 88	go:0016020 positive	i
## 89	go:0005739 positive	i
## 90	nan positive	i
## 91	nan positive	i
## 92	nan positive	d
## 93	nan positive	i
## 94	nan positive	d
## 95	nan positive	i
## 96	go:0009986 positive	i
## 97	go:0005737 positive	d
## 98	go:0016020 positive	d
## 99	go:0016020 positive	d
## 100	nan positive	i
##		
## 1	['phosphorylation', 'phosphorylation', 'phosphorylation', 'phosphorylation', 'phosphorylation',	
## 2	['acetylation', 'acetyl	
## 3	['phosphorylation',	
## 4	['phosphorylation',	
## 5	[
## 6	[
## 7		
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	Paper . . .
## 1	['pmc2075366', 'pmc2868031', 'pmc3291999', 'pmc3660063', 'pmc3660063', 'pmc3750018', 'pmc3837323
## 2	['pmc3330162', 'pmc3330162', 'pmc3330162', 'pmc3330162
## 3	['pmc4159025', 'pmc4159025', 'pmc4159025
## 4	['pmc3709701', 'pmc3709701', 'pmc3709701
## 5	['pmc3291999', 'pmc3291999
## 6	['pmc2925474', 'pmc2925474
## 7	['pmc2925474', 'pmc2954851
## 8	['pmc2817464', 'pmc2817464
## 9	['pmc2925474', 'pmc2925474
## 10	['pmc3667761', 'pmc3667761
## 11	['pmc2683723', 'pmc2683723
## 12	['pmc4624070', 'pmc4624070
## 13	['pmc4159025', 'pmc4159025
## 14	['pmc2654145', 'pmc2654145
## 15	['pmc3330162', 'pmc3330162
## 16	['pmc4296918', 'pmc4296918
## 17	['pmc1892639', 'pmc1892639
## 18	['pmc4102778', 'pmc4258317
## 19	['pmc4102778', 'pmc4102778
## 20	['pmc4102778', 'pmc4102778
## 21	['pmc3388235', 'pmc3388235
## 22	['pmc3656868
## 23	['pmc2954851
## 24	['pmc3656868
## 25	['pmc4245943
## 26	['pmc4296918
## 27	['pmc2954851
## 28	['pmc4245943
## 29	['pmc2954851
## 30	['pmc3325598
## 31	['pmc2954851
## 32	['pmc3656868
## 33	['pmc2954851
## 34	['pmc3656868
## 35	['pmc4700468
## 36	['pmc2683723
## 37	['pmc2954851
## 38	['pmc2954851
## 39	['pmc2954851
## 40	['pmc1647274
## 41	['pmc2954851

## 42	['pmc3556166
## 43	['pmc2652403
## 44	['pmc2206000
## 45	['pmc4260754
## 46	['pmc4558782
## 47	['pmc4558782
## 48	['pmc4258317
## 49	['pmc2683723
## 50	['pmc2954851
## 51	['pmc4171619
## 52	['pmc4258317
## 53	['pmc3537888
## 54	['pmc4923948
## 55	['pmc3537888
## 56	['pmc4211374
## 57	['pmc4211374
## 58	['pmc4211374
## 59	['pmc4211374
## 60	['pmc4211374
## 61	['pmc4260754
## 62	['pmc3656868
## 63	['pmc4211374
## 64	['pmc4091167
## 65	['pmc3656868
## 66	['pmc2954851
## 67	['pmc4480747
## 68	['pmc3317191
## 69	['pmc4260754
## 70	['pmc2954851
## 71	['pmc2954851
## 72	['pmc2954851
## 73	['pmc4260754
## 74	['pmc4171619
## 75	['pmc4171619
## 76	['pmc2954851
## 77	['pmc149420
## 78	['pmc4102778
## 79	['pmc3656868
## 80	['pmc2954851
## 81	['pmc4245943
## 82	['pmc2683723
## 83	['pmc3317191
## 84	['pmc3317191
## 85	['pmc4296918
## 86	['pmc2817464
## 87	['pmc2652403
## 88	['pmc3709701
## 89	['pmc3039802
## 90	['pmc4624070
## 91	['pmc2925474
## 92	['pmc2954851
## 93	['pmc4381605
## 94	['pmc3317191
## 95	['pmc3317191

## 96		['pmc4347645
## 97		['pmc1647274
## 98		['pmc3660063
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## 100		['pmc4627348
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## 15	['thus , a plausible explanation for the transcription and modification results is that p300 med	
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##	Evidence.Score	Match.Score	Kind.Score	Epistemic.Value	Total.Score
## 1	7	100	40	1	740

## 2	4	100	40	1	440
## 3	3	100	40	1	340
## 4	3	100	40	1	340
## 5	2	100	40	1	240
## 6	2	100	40	1	240
## 7	2	100	40	1	240
## 8	2	100	40	1	240
## 9	2	100	40	1	240
## 10	2	100	40	1	240
## 11	2	100	40	1	240
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## 99	1	100	40	1	140
## 100	1	100	40	1	140