

5.2 Exercise

2022-07-06

1. Using either the same dataset(s) you used in the previous weeks' exercise or a brand-new dataset of your choosing, perform the following transformations (Remember, anything you learn about the Housing dataset in these two weeks can be used for a later exercise!)
2. Using the dplyr package, use the 6 different operations to analyze/transform the data - GroupBy, Summarize, Mutate, Filter, Select, and Arrange – Remember this isn't just modifying data, you are learning about your data also – so play around and start to understand your dataset in more detail
3. Using the purrr package – perform 2 functions on your dataset. You could use zip_n, keep, discard, compact, etc.
4. Use the cbind and rbind function on your dataset
5. Split a string, then concatenate the results back together

```
#1
housing %>% group_by(building_grade) %>% summarise(AvgPrice=mean(`Sale Price`)) %>% arrange(AvgPrice)
```

```
## # A tibble: 12 x 2
##   building_grade AvgPrice
##   <dbl>         <dbl>
## 1           2  193324.
## 2           6  400356.
## 3           4  439000
## 4           7  520336.
## 5           5  574909.
## 6           8  593784.
## 7           3  668750
## 8           9  767907.
## 9          10  877373.
## 10          11 1169214.
## 11          12 1605386.
## 12          13 1956293.
```

```
filter(housing, sale_reason == '12' )
```

```
## # A tibble: 65 x 24
##   'Sale Date'      'Sale Price' sale_reason sale_instrument sale_warning
##   <dtm>          <dbl>         <dbl>         <dbl> <chr>
## 1 2006-01-20 00:00:00    350000          12           3 <NA>
## 2 2006-02-09 00:00:00    647500          12           3 <NA>
## 3 2006-02-21 00:00:00    485000          12           3 <NA>
## 4 2006-03-29 00:00:00    544114          12           3 <NA>
## 5 2006-04-04 00:00:00    624900          12           3 <NA>
## 6 2006-04-10 00:00:00    561000          12           3 <NA>
```

```
## 7 2006-04-21 00:00:00      422000      12      3 <NA>
## 8 2006-05-10 00:00:00      580000      12      3 <NA>
## 9 2006-07-06 00:00:00      735673      12      3 <NA>
## 10 2006-07-21 00:00:00     460000      12      3 <NA>
## # ... with 55 more rows, and 19 more variables: sitetype <chr>,
## #   addr_full <chr>, zip5 <dbl>, ctynome <chr>, postalctyn <chr>, lon <dbl>,
## #   lat <dbl>, building_grade <dbl>, square_feet_total_living <dbl>,
## #   bedrooms <dbl>, bath_full_count <dbl>, bath_half_count <dbl>,
## #   bath_3qtr_count <dbl>, year_built <dbl>, year_renovated <dbl>,
## #   current_zoning <chr>, sq_ft_lot <dbl>, prop_type <chr>, present_use <dbl>
```

```
housing%>% slice(1:5)
```

```
## # A tibble: 5 x 24
##   'Sale Date'      'Sale Price' sale_reason sale_instrument sale_warning
##   <dtm>           <dbl>         <dbl>         <dbl> <chr>
## 1 2006-01-03 00:00:00     698000           1           3 <NA>
## 2 2006-01-03 00:00:00     649990           1           3 <NA>
## 3 2006-01-03 00:00:00     572500           1           3 <NA>
## 4 2006-01-03 00:00:00     420000           1           3 <NA>
## 5 2006-01-03 00:00:00     369900           1           3 15
## # ... with 19 more variables: sitetype <chr>, addr_full <chr>, zip5 <dbl>,
## #   ctynome <chr>, postalctyn <chr>, lon <dbl>, lat <dbl>,
## #   building_grade <dbl>, square_feet_total_living <dbl>, bedrooms <dbl>,
## #   bath_full_count <dbl>, bath_half_count <dbl>, bath_3qtr_count <dbl>,
## #   year_built <dbl>, year_renovated <dbl>, current_zoning <chr>,
## #   sq_ft_lot <dbl>, prop_type <chr>, present_use <dbl>
```

```
housing %>% select(`Sale Price`, sq_ft_lot) %>% mutate(`Sale Price`/sq_ft_lot)
```

```
## # A tibble: 12,865 x 3
##   'Sale Price' sq_ft_lot `Sale Price`/sq_ft_lot`
##   <dbl>         <dbl>         <dbl>
## 1     698000      6635          105.
## 2     649990      5570          117.
## 3     572500      8444           67.8
## 4     420000      9600           43.8
## 5     369900      7526           49.1
## 6     184667      7280           25.4
## 7    1050000     97574           10.8
## 8     875000     30649           28.5
## 9     660000     42688           15.5
## 10    650000     94889            6.85
## # ... with 12,855 more rows
```

```
#2
```

```
housing %>% select(`Sale Price`) %>% map_dbl(sum)
```

```
## Sale Price
## 8500391149
```

```
housing %>% select(`Sale Price`) %>% map(compact)
```

```
## $'Sale Price'
##      [1] 698000 649990 572500 420000 369900 184667 1050000 875000 660000
##     [10] 650000 599950 526787 470000 165000 803000 507950 765000 589950
##     [19] 501000 372500 513262 482000 765000 372500 265000 1392000 717390
##     [28] 552000 470000 523935 399900 335105 572950 949950 905000 750073
##     [37] 526718 690749 640000 485000 270000 480000 450400 462150 418000
##     [46] 350000 1445000 729000 542000 485000 445000 754500 640900 589950
##     [55] 465000 443509 362000 494000 345000 1053649 870000 844148 765719
##     [64] 689000 446400 849990 798000 527593 599500 540430 148000 1900000
##     [73] 1080135 451129 393000 384950 579950 538595 535500 530020 1075000
##     [82] 691321 657953 623990 661500 650100 549000 435000 430000 879950
##     [91] 810000 732500 655000 550000 410000 665906 711000 647500 594950
##    [100] 590000 521674 488610 403250 560000 560000 390750 405000 1520000
##    [109] 714950 628241 516923 498000 475000 275000 1390000 1390000 687088
##    [118] 490739 430723 400000 375000 745800 634990 928800 795000 479500
##    [127] 390000 670000 524000 799950 650000 500000 485000 420000 366000
##    [136] 855000 855000 855000 720990 526000 525000 520000 475000 475000
##    [145] 409000 569950 543000 438500 430000 575000 549953 547096 543000
##    [154] 532000 482000 465000 385000 575650 396000 229000 580000 899950
##    [163] 870000 671332 595000 585000 535313 505000 487935 475000 371000
##    [172] 370000 614000 609500 549950 488232 417200 390000 693300 660000
##    [181] 650000 588000 510731 1100000 940000 602450 532000 477218 430000
##    [190] 322457 880000 704990 631235 450222 404783 1380000 789000 759995
##    [199] 528000 502000 345000 729950 585000 499900 463200 461631 260000
##    [208] 1050000 632990 608000 455000 437500 410000 1300000 500000 480000
##    [217] 729990 659990 480000 459950 449950 315000 991550 662501 497000
##    [226] 489533 459800 449950 337000 852000 770910 619950 565000 510000
##    [235] 425000 839900 475900 403294 1588359 920000 854990 620000 536500
##    [244] 477000 1450000 1450000 765626 764950 603000 565000 501000 349500
##    [253] 290000 1025000 599950 563200 554000 483950 441633 395000 1490000
##    [262] 935000 800000 750000 699950 672000 540000 441500 357500 245000
##    [271] 889000 641500 638000 530000 432619 422000 409382 384863 313500
##    [280] 750591 729900 679950 624500 576251 527000 387000 163000 855990
##    [289] 832950 632900 624900 575000 378000 295000 270000 835000 700000
##    [298] 544114 445000 200000 965000 665500 629950 526500 442000 660000
##    [307] 597133 585000 575000 535000 535000 385000 1425000 786950 778000
##    [316] 726990 575000 505000 470000 436000 394000 288000 624900 595000
##    [325] 540314 915000 915000 915000 768950 679950 670676 650000 578500
##    [334] 516000 510500 487000 465000 642470 404409 400830 300000 275000
##    [343] 220000 90000 90000 750000 665000 510000 487000 421000 620000
##    [352] 569950 1032209 924950 739990 576000 561000 408000 187000 679990
##    [361] 560000 532356 452950 420000 1425000 760000 570500 426000 425285
##    [370] 399950 389900 375000 161000 462000 31272 1369900 1000000 634000
##    [379] 573953 560000 470672 465000 448909 364175 2500000 1195000 469000
##    [388] 459950 374980 668000 594950 540000 450000 445000 250000 2169000
##    [397] 799950 689950 659900 625000 589617 494950 475000 411000 410000
##    [406] 349000 750000 647400 492000 489000 470000 449223 438000 389950
##    [415] 76777 1175000 1092000 905000 750270 725000 583000 565000 485000
##    [424] 422000 650000 584446 525931 431305 699950 1025000 771408 665000
##    [433] 534000 450000 445000 365000 629950 565000 563000 669000 630000
##    [442] 379000 340000 965000 799500 759950 435000 454500 1130000 800000
```

##	[451]	769000	695000	679950	630000	628411	555082	518500	451950	413000
##	[460]	800000	629950	545000	499000	400000	729990	641950	609950	1174477
##	[469]	609000	575000	465100	500000	400749	395000	1534000	1389900	749950
##	[478]	705000	627000	591000	562500	555000	802790	747500	499000	438052
##	[487]	642680	580000	561000	561000	458802	406000	672500	500000	459990
##	[496]	560000	464500	428327	394565	345400	712000	675000	610000	525000
##	[505]	444000	411000	403000	65000	787500	725000	535000	482700	785000
##	[514]	700000	664000	524000	408024	375000	1455000	763828	601000	570000
##	[523]	559950	551500	515000	498500	445273	435000	393550	785000	750000
##	[532]	535000	475000	431000	792500	720990	525950	499500	470000	444000
##	[541]	435000	400000	815000	769950	707000	660000	555000	485000	995000
##	[550]	750000	630000	587576	510150	430000	268500	635000	547953	400610
##	[559]	360000	329000	831000	729950	706000	675000	554750	550000	470260
##	[568]	462500	1005000	754955	564863	525540	510000	501003	385012	333000
##	[577]	420000	811350	778800	694000	646000	575000	575000	542000	537000
##	[586]	532000	470000	432900	350500	185911	126550	825000	801850	460000
##	[595]	1125000	805000	715000	689950	555450	478000	1650000	1125000	833000
##	[604]	530000	687500	659979	627500	530000	475000	451680	429950	1968000
##	[613]	713729	570954	535000	525000	460000	448000	435000	409000	647500
##	[622]	647500	640289	639500	587000	449950	378000	377500	759950	1060000
##	[631]	775000	750000	680000	600000	563000	415677	1219000	942000	648250
##	[640]	599950	550000	525000	510500	423500	745000	730000	649950	573000
##	[649]	887990	785000	556000	499995	485000	330000	268450	1768000	845000
##	[658]	425000	675000	380000	2569000	1879000	860000	661000	620000	525000
##	[667]	520113	450000	405000	2583000	1540000	831282	750000	732990	664124
##	[676]	600000	550000	439000	350000	300000	243500	676099	560263	540000
##	[685]	520000	487200	458000	390000	734831	699900	595000	588000	527000
##	[694]	465000	393968	1250000	1150000	730000	590000	570000	450000	391000
##	[703]	576000	425500	500000	825000	730990	670000	450000	446550	729950
##	[712]	650000	615000	535000	532000	510000	500000	495000	416000	410000
##	[721]	410000	395000	1475000	1265000	839000	646000	620000	555000	475000
##	[730]	465000	460000	460000	444900	425000	418468	351000	870000	795000
##	[739]	677500	677500	565000	385000	489500	404999	995000	765000	765000
##	[748]	705487	529000	442720	1772500	1000000	454061	448000	412000	735673
##	[757]	600000	489500	470000	355000	307400	810000	749950	599950	579000
##	[766]	518000	505000	395251	980000	745000	595000	445361	366000	882990
##	[775]	721441	613500	489950	366000	560000	470000	435000	435000	385000
##	[784]	325000	1875000	1650000	900000	739990	715000	680000	567950	829950
##	[793]	795000	743990	695870	634888	632100	589800	576000	510000	342000
##	[802]	340000	745990	621000	350000	749950	640000	625000	460000	367769
##	[811]	3000000	1295000	959000	804000	804000	742641	699950	600000	585500
##	[820]	499000	477000	462500	1650000	888000	615000	556491	504200	389000
##	[829]	875000	573822	525000	460000	300000	875000	759950	701000	650000
##	[838]	516000	353000	190100	935000	924500	921120	694000	584500	404062
##	[847]	752990	721500	544000	540000	385000	250000	1595000	941391	775000
##	[856]	735000	590700	460000	396000	890000	630000	480000	999950	870000
##	[865]	849950	1434000	739950	669250	609000	555500	350000	673390	575000
##	[874]	529700	429999	403836	157000	1185000	735000	519000	414950	889000
##	[883]	650000	436787	419950	293504	140000	869950	647989	608500	577000
##	[892]	560000	535000	377577	304790	475000	852990	789000	759990	525000
##	[901]	300000	847990	997737	752990	724500	479950	473000	402443	1295000
##	[910]	750000	668000	660000	602000	490000	487262	450000	349500	672420
##	[919]	663000	659950	586000	530000	477500	450655	423000	394097	390000
##	[928]	360000	1750000	697075	612000	527000	360000	1262500	1165000	690000

##	[937]	585000	517000	509000	435000	420000	910000	899950	806000	780000
##	[946]	739950	616500	580000	443703	439900	383000	293504	576104	550000
##	[955]	437950	719950	699950	579990	558000	525000	475000	460000	446000
##	[964]	425000	307452	1660000	899000	845000	467000	305000	1299950	1100000
##	[973]	560000	456101	399950	929500	570000	570000	503692	499000	457800
##	[982]	419500	689000	600000	595000	580000	577990	575479	539500	524900
##	[991]	520000	508905	421270	420000	294420	945000	849500	580800	489000
##	[1000]	430000	209900	969950	801577	779990	775000	644900	417000	188000
##	[1009]	175000	900000	577000	553311	435000	567085	865000	619000	475000
##	[1018]	410000	937990	556000	549950	925000	590000	477500	850000	807750
##	[1027]	755990	745000	719990	549900	445000	414000	1818026	835000	787990
##	[1036]	676231	601000	590000	575000	550000	465000	450000	435000	1315000
##	[1045]	940800	687000	599950	514950	480000	421132	681625	434719	700000
##	[1054]	599880	485000	465000	446000	390000	799000	777000	737300	680000
##	[1063]	555000	376900	300000	483107	474357	464200	390000	828000	789950
##	[1072]	650000	650000	566400	1100000	830232	828000	650000	542000	539949
##	[1081]	449900	279556	279556	1230000	762577	700000	588000	550000	513000
##	[1090]	466787	439000	652400	630000	539950	515000	515000	461150	367500
##	[1099]	350000	280654	1100950	879000	815000	665000	546313	442107	438000
##	[1108]	134132	669900	569000	505000	473000	425000	1303636	965000	675000
##	[1117]	575000	473379	279150	910000	707000	560000	550000	545000	435000
##	[1126]	840000	690000	687000	530000	485000	449950	385000	374900	1180000
##	[1135]	910000	793820	499000	398000	375000	364000	315000	279150	1350000
##	[1144]	806436	787990	777124	728000	659900	425000	375000	1200000	755000
##	[1153]	870000	605905	32000	1100000	521950	435000	869950	835000	720000
##	[1162]	675000	666308	490000	488166	815000	629900	475000	469900	850000
##	[1171]	720000	599500	510000	320000	1300000	950000	690000	465000	1725000
##	[1180]	791502	785000	720000	536800	455450	451766	447639	765000	600000
##	[1189]	478500	395000	583800	557430	532000	380211	556570	500000	783000
##	[1198]	532000	498113	455000	410000	899000	826950	471864	470046	385000
##	[1207]	1007000	620000	609900	547800	525000	412000	1188000	840000	819950
##	[1216]	779990	520000	443880	250000	579000	537500	895950	709950	699990
##	[1225]	617900	555000	427000	240000	850000	786000	519950	429950	189500
##	[1234]	550000	580000	530000	424309	949500	800000	765000	761243	591791
##	[1243]	583348	577000	564000	545000	520000	509589	425000	126894	626405
##	[1252]	524181	484385	352000	307452	708000	575000	560850	425500	1020000
##	[1261]	605000	699950	547000	489999	385000	1000000	982500	942615	786950
##	[1270]	769950	723389	650000	588575	500000	465000	421000	749142	684000
##	[1279]	573000	545581	534000	399750	1350000	1025000	920795	869220	681000
##	[1288]	570000	551720	487203	470000	297452	119079	1580000	799000	740000
##	[1297]	581000	550000	495000	459513	394950	262000	675000	360000	1316000
##	[1306]	697415	560000	447000	390000	1580000	1189000	815000	805000	724990
##	[1315]	613000	595000	515000	485000	427500	390000	521000	495000	480000
##	[1324]	400000	390000	960000	829950	293504	1018000	633438	525755	420000
##	[1333]	345992	1050000	874598	804950	736250	699500	493500	464900	449950
##	[1342]	345992	293504	266667	233333	627500	542000	425113	729000	861500
##	[1351]	861500	804950	799950	773990	675000	663367	562225	425000	305000
##	[1360]	980000	794691	793467	710000	699000	470000	423443	410000	375000
##	[1369]	1105000	980000	725990	815000	582542	340000	733947	531646	530000
##	[1378]	520000	151000	80000	1180000	858000	800000	781000	739900	735000
##	[1387]	562000	405000	920000	765897	724500	609000	457000	405000	135000
##	[1396]	875000	376250	1340000	1070000	763294	670000	568052	370100	699990
##	[1405]	612500	537220	400000	293504	74205	1099900	769990	710000	699000
##	[1414]	587500	578000	450000	448743	380000	800000	588000	585000	572000

##	[1423]	528500	512000	510804	1168000	789900	650000	623995	795990	729990
##	[1432]	624900	455000	279900	279556	675000	521918	293504	673000	560000
##	[1441]	450000	1085000	1085000	768990	705000	585000	580000	540858	529000
##	[1450]	438000	895950	634950	630000	542365	475000	465000	462500	422500
##	[1459]	697000	676530	669000	632000	517000	497222	470720	1620000	1287500
##	[1468]	789990	765000	688270	385000	750000	699990	615000	280000	250000
##	[1477]	765000	500000	467000	375000	543571	430000	380000	740000	725000
##	[1486]	590000	515000	499950	399900	307452	381400	285000	690000	690000
##	[1495]	556243	350000	345992	345992	293504	279556	833000	490000	470000
##	[1504]	452800	878500	842950	750000	650000	649000	552000	935000	899904
##	[1513]	625000	1600000	899001	819016	765000	648000	365000	949000	625000
##	[1522]	984400	620000	450000	741443	713913	520000	464025	430000	580000
##	[1531]	500000	499900	1175000	529500	457000	872000	782990	552000	834000
##	[1540]	120244	661085	399999	375000	959286	860000	712780	800000	697599
##	[1549]	510000	276450	850000	488500	1181950	700000	665000	620000	553050
##	[1558]	550000	512000	799950	696000	610000	524829	384000	345992	575000
##	[1567]	494995	455373	723950	670000	559950	490000	1088000	925000	849843
##	[1576]	630000	488610	399950	379950	365000	345992	497000	488672	734900
##	[1585]	640000	746790	628501	455000	749990	645000	578932	630000	380000
##	[1594]	969000	952950	578000	550000	550000	345992	475000	339000	830000
##	[1603]	700000	685000	642804	600820	599900	581900	575000	459990	458015
##	[1612]	279560	279556	871950	678000	659950	600000	885000	700000	495000
##	[1621]	486500	529000	839050	550000	839990	784950	779900	720820	620000
##	[1630]	522500	515000	505000	5000	795000	645000	999950	700000	699950
##	[1639]	566705	554000	490000	875824	771979	617000	543644	489000	465000
##	[1648]	465000	445000	349999	550000	849950	724950	249000	848950	681521
##	[1657]	503675	1217000	887950	840850	840000	735000	699950	660000	573000
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##	[11422]	832500	774710	745000	562800	550000	395500	860000	770000	750000
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##	[11440]	695950	659500	620000	522000	517500	495000	449950	1449000	1319000
##	[11449]	459000	1399950	900000	600000	400000	1000000	745000	615000	1000000
##	[11458]	864950	855000	752000	489900	1008990	882900	560000	372000	850000
##	[11467]	725000	660000	521000	1302000	977000	765000	725000	620000	515000
##	[11476]	487000	1300000	875000	860000	673500	659000	520000	499000	1549990
##	[11485]	758000	675000	675000	1052550	1399990	955990	749000	645250	800000
##	[11494]	662500	430000	1060000	948990	736000	750000	630000	1309990	1180000
##	[11503]	858000	750000	659500	600000	562000	417500	762000	954990	510000
##	[11512]	510000	473000	1019990	1016990	790000	770000	490000	758000	724950
##	[11521]	682500	510000	864500	699000	480000	949868	730500	371000	1082500
##	[11530]	1262000	990000	930000	817924	556500	531000	514000	500000	440000
##	[11539]	860000	905000	775000	569950	680000	645000	990000	970000	649900
##	[11548]	520000	979900	725000	705360	351000	146500	665000	406204	1241836
##	[11557]	539900	2150000	1039200	900000	785000	785000	631000	525000	1038990
##	[11566]	790250	620000	545000	595000	985000	789500	780000	755000	687000
##	[11575]	500000	1449990	792500	757500	1100000	1020000	765500	720500	670000
##	[11584]	590000	555000	1700000	947258	899995	900000	819950	720000	529000
##	[11593]	1359990	945000	739000	590000	580000	789950	660000	633100	817000
##	[11602]	560000	541000	475000	353000	284484	852000	450000	110000	621000
##	[11611]	600000	465000	436625	417000	398000	701000	805100	522450	450000
##	[11620]	959000	818000	728000	502000	489950	455000	900000	780000	505000

##	[11629]	415000	354720	1766000	1250000	1125000	929000	845900	828000	715000
##	[11638]	675000	610000	600000	500000	375000	575000	555000	520000	516000
##	[11647]	789950	679023	425000	380000	1299990	1099990	990750	748000	532500
##	[11656]	339000	1000000	959900	834000	620000	570242	1110000	865000	820000
##	[11665]	800000	530000	455000	1650000	1499990	510000	1366967	814950	629209
##	[11674]	575000	520000	465050	902500	981990	936500	730000	525000	481000
##	[11683]	167231	925000	848234	585500	939900	580000	570000	567492	465000
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##	[11755]	372000	1139990	785000	269000	834900	201000	1000000	999000	385000
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##	[11773]	916000	1500000	1480000	1480000	807000	625000	920000	600000	400000
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##	[11791]	739000	660000	617500	556000	475000	890000	1250000	1190000	879950
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##	[11818]	1188250	495000	447500	408800	2850000	1295000	925000	857500	490000
##	[11827]	610000	449950	805000	531500	450000	655000	640000	540000	899000
##	[11836]	852000	931000	420252	375000	1125000	495000	350000	1275000	1020000
##	[11845]	1000000	995000	925000	640000	1510116	1500000	1218000	705000	615000
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##	[11926]	862000	686006	654640	425000	1402000	1053000	960000	865000	850000
##	[11935]	836645	572500	498500	480000	340000	949000	940000	560000	549000
##	[11944]	849000	820000	706000	500000	1035000	742000	544950	1000000	794500
##	[11953]	660000	458500	451000	431000	912000	900000	860000	705000	600000
##	[11962]	367500	929904	900000	879000	833000	740000	1350000	1120000	777500
##	[11971]	675000	810000	725000	600000	575000	475000	393000	873500	800000
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##	[11998]	775000	643986	643986	855000	495000	298560	944900	710500	620000
##	[12007]	1250000	962500	775000	753000	493000	435000	750000	715000	600000
##	[12016]	559950	530000	818000	731000	536000	1004900	855000	848000	760000
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##	[12070]	560000	909300	870000	735000	615000	560000	170000	731000	1275000
##	[12079]	990000	945000	923000	780000	510000	410000	1148990	1012000	950000
##	[12088]	920000	905000	899000	875000	788000	715000	700000	600000	554500
##	[12097]	485000	2077000	744000	715000	680000	665000	621576	715000	700001
##	[12106]	680950	600000	552000	438000	396952	995000	634000	611000	569900

##	[12115]	560000	444500	205618	1205000	780000	640000	1010000	689000	525000
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##	[12142]	611500	519900	503000	484000	389000	820000	810000	700290	545000
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##	[12196]	489500	1145990	1010000	840000	759950	700000	651000	571600	550000
##	[12205]	490000	490000	904176	875000	865000	820000	685000	1200000	1200000
##	[12214]	989900	640000	450000	194900	925000	895000	721000	510000	860500
##	[12223]	860135	850500	735000	700000	593000	538000	262500	500000	408000
##	[12232]	1100000	980000	825000	810000	676000	535000	442261	1175990	1149000
##	[12241]	890000	885000	825000	710000	585000	510000	1120000	975000	718000
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##	[12259]	868000	788000	680000	610000	580000	530000	194900	1070000	975000
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##	[12277]	1350000	1249950	909950	800000	622000	864000	720000	460000	1382550
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##	[12403]	1181000	1020000	930000	925500	765000	700000	639000	1000000	900000
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##	[12475]	695000	691500	1699990	1200000	985000	892450	752500	665000	625000
##	[12484]	1018500	760000	675000	2200000	1000000	885000	730000	550000	810000
##	[12493]	1142600	730000	445000	790000	685000	685000	620000	618000	585000
##	[12502]	569700	559198	964950	753000	649000	629000	410000	306780	650000
##	[12511]	629000	37800	1500000	975000	838000	810000	800000	769900	685000
##	[12520]	592000	350000	835000	779000	707250	640000	920000	765000	1675000
##	[12529]	535500	990000	869900	605000	859000	540000	525000	265000	265000
##	[12538]	1228990	745950	710000	599900	775000	1800000	1000000	729000	480000
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##	[12574]	788000	745000	490000	2700000	1050880	835000	700000	651000	3950000
##	[12583]	949950	940000	900000	570000	569900	899900	880000	789092	690000
##	[12592]	625000	419000	1301000	645000	580000	715000	510000	1350000	1035000

```
## [12601] 868428 800000 605000 552000 475000 1155000 1075000 875000 810000
## [12610] 802077 710000 620000 608000 599950 528000 1010000 925000 745000
## [12619] 730000 1375000 771500 700000 680500 585000 1421000 825000 685000
## [12628] 959950 775000 700000 645000 1399000 880000 848000 739000 731000
## [12637] 650000 575000 569000 524000 375000 325000 3850000 1180000 985000
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## [12673] 1482990 870000 679500 567000 541000 985000 900000 715000 485000
## [12682] 1140000 690000 380126 380000 148200 1549000 1211990 1180000 1060000
## [12691] 845000 669714 465000 1160000 835500 707000 658000 429990 1060000
## [12700] 842000 773000 740000 650000 548000 760000 1599990 1050000 950000
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## [12727] 529000 1500000 832000 800000 725000 720000 700000 550000 1450000
## [12736] 1015000 735000 549000 500000 975000 707000 579000 575000 69484
## [12745] 1015607 317720 1060000 513500 467293 1250000 1075000 850000 936372
## [12754] 705000 559000 576000 431952 1189950 1700000 1020000 975000 745000
## [12763] 531000 2988000 1000000 729000 710000 574000 563000 337512 1050000
## [12772] 910000 900000 875000 815000 790000 595000 430000 1210000 920000
## [12781] 835000 650000 590000 960000 950000 1220000 1165000 885000 600000
## [12790] 1279990 809000 750000 732500 702000 620000 540000 1430369 550000
## [12799] 568000 150000 1499990 1389950 918000 1374990 830000 737500 669585
## [12808] 1685000 1155000 1005000 436500 935000 900000 650000 500000 2050000
## [12817] 900000 900000 734000 639000 735000 689000 658596 633000 502000
## [12826] 1124950 925000 725000 480500 912000 870000 686000 662000 1500000
## [12835] 1499990 517800 1005000 854810 633000 545000 900000 692000 244040
## [12844] 839000 660000 620000 533711 495000 1095000 687500 687500 837220
## [12853] 590000 1780000 711000 180637 865000 840000 833000 824000 798930
## [12862] 750000 629000 835000 455500
```

```
#3
housing_2 <- housing
sale_price_test <-housing %>% select(`Sale Price`)
cbind_example <- cbind(housing_2, sale_price_test)
rbind_example <- rbind(housing_2, housing)
```

```
#4
paste("Hello", "Darius", sep = "")
```

```
## [1] "HelloDarius"
```

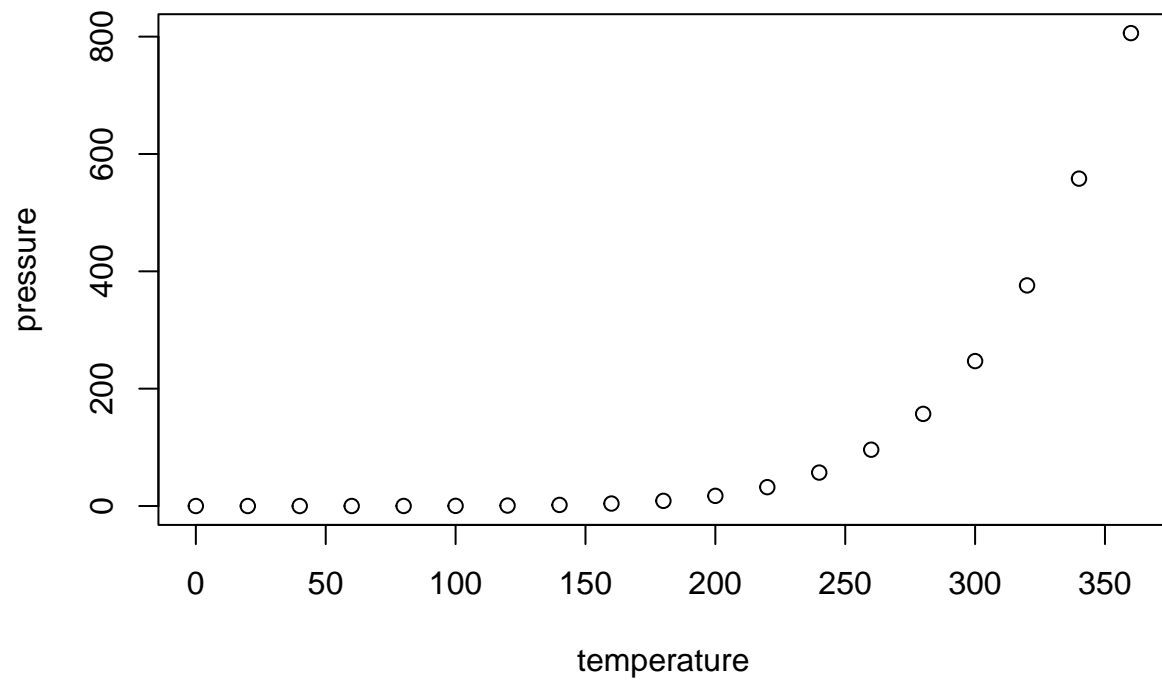
```
paste("Hello", "Darius", sep = " ")
```

```
## [1] "Hello Darius"
```

Including Plots

You can also embed plots, for example:

```
plot(pressure)
```



Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.