

# Quiz1

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**Q1 The American Community Survey distributes downloadable data about United States communities. Download the 2006 microdata survey about housing for the state of Idaho using `download.file()` from here:**

<https://d396qusza40orc.cloudfront.net/getdata%2Fdata%2Fss06hid.csv>

and load the data into R. The code book, describing the variable names is here:

<https://d396qusza40orc.cloudfront.net/getdata%2Fdata%2FPUMSDict06.pdf>

How many properties are worth \$1,000,000 or more?

```
file_housing_Url <- "https://d396qusza40orc.cloudfront.net/getdata%2Fdata%2Fss06hid.csv"
download.file(file_housing_Url, destfile = "./microdata_survey_housing.csv")
housingdata <- read.csv("microdata_survey_housing.csv")
head(housingdata)
```

```
##   RT SERIALNO DIVISION PUMA REGION ST  ADJUST WGTP NP TYPE ACR AGS BDS BLD BUS
## 1  H      186        8  700      4 16 1015675   89  4    1  1  NA  4  2  2
## 2  H      306        8  700      4 16 1015675  310  1    1 NA  NA  1  7  NA
## 3  H      395        8  100      4 16 1015675  106  2    1  1  NA  3  2  2
## 4  H      506        8  700      4 16 1015675  240  4    1  1  NA  4  2  2
## 5  H      835        8  800      4 16 1015675  118  4    1  2  1  5  2  2
## 6  H      989        8  700      4 16 1015675  115  4    1  1  NA  3  2  2
##   CONP ELEP FS  FULP  GASP HFL  INSP KIT  MHP MRGI MRGP MRGT MRGX PLM RMS RNTM RNTP
## 1  NA  180  0    2    3    3  600    1  NA    1 1300    1    1  1  9  NA  NA
## 2  NA   60  0    2    3    3   NA    1  NA    NA  NA    NA    NA  1  2    2  600
## 3  NA   70  0    2   30    1  200    1  NA    NA  NA    NA    3  1  7  NA  NA
## 4  NA   40  0    2   80    1  200    1  NA    1  860    1    1  1  6  NA  NA
## 5  NA  250  0    2    3    3  700    1  NA    1 1900    1    1  1  7  NA  NA
## 6  NA  130  0    2    3    3  250    1  NA    1  700    1    1  1  6  NA  NA
##   SMP TEL TEN VACS VAL VEH WATP YBL FES  FINCP FPARC GRNTP GRPIP HHL HHT  HINCP
## 1  NA   1  1  NA  17   3  840   5  2 105600    2  NA    NA  1  1 105600
## 2  NA   1  3  NA  NA   1   1   3  NA    NA    NA  660   23  1  4  34000
## 3  NA   1  2  NA  18   2   50   5  7   9400    2  NA    NA  1  3   9400
## 4 400   1  1  NA  19   3  500   2  1  66000    1  NA    NA  1  1  66000
```

## 5	650	1	1	NA	20	5	2	3	1	93000	2	NA	NA	1	1	93000
## 6	400	1	1	NA	15	2	1200	5	2	61000	1	NA	NA	1	1	61000
##	HUGCL	HUPAC	HUPAOC	HUPARC	LNGI	MV	NOC	NPF	NPP	NR	NRC	OCPIP	PARTNER	PSF	R18	
## 1	0	2	2	2	1	4	2	4	0	0	2	18	0	0	1	
## 2	0	4	4	4	1	3	0	NA	0	0	0	NA	0	0	0	
## 3	0	2	2	2	1	2	1	2	0	0	1	23	0	0	1	
## 4	0	1	1	1	1	3	2	4	0	0	2	26	0	0	1	
## 5	0	2	2	2	1	1	1	4	0	0	1	36	0	0	1	
## 6	0	1	1	1	1	4	2	4	0	0	2	26	0	0	1	
##	R60	R65	RESMODE	SMOCP	SMX	SRNT	SVAL	TAXP	WIF	WKEXREL	WORKSTAT	FACRP	FAGSP			
## 1	0	0	1	1550	3	0	1	24	3	2	3	0	0			
## 2	0	0	2	NA	NA	1	0	NA	NA	NA	NA	0	0			
## 3	0	0	1	179	NA	0	1	16	1	13	13	0	0			
## 4	0	0	2	1422	1	0	1	31	2	2	1	0	0			
## 5	0	0	1	2800	1	0	1	25	3	1	1	0	0			
## 6	0	0	2	1330	2	0	1	7	1	7	3	0	0			
##	FBDSP	FBLDP	FBUSP	FCONP	FELEP	FFSP	FFULP	FGASP	FHFLP	FINSP	FKITP	FMHP	FMRGIP			
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0			
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0			
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0			
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0			
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0			
## 6	0	0	0	0	0	0	0	0	0	1	0	0	0			
##	FMRGP	FMRGTP	FMRGXP	FMVYP	FPLMP	FRMSP	FRNTMP	FRNTP	FSMP	FSMXHP	FSMXSP	FTAXP				
## 1	0	0	0	0	0	0	0	0	0	0	0	0				
## 2	0	0	0	0	0	0	0	0	0	0	0	0				
## 3	0	0	0	0	0	0	0	0	0	0	0	0				
## 4	0	0	0	0	0	0	0	0	0	0	0	0				
## 5	0	0	0	0	0	0	0	0	0	0	0	0				
## 6	0	0	0	0	0	0	0	0	0	0	0	0				
##	FTELP	FTENP	FVACSP	FVALP	FVEHP	FWATP	FYBLP	wgtp1	wgtp2	wgtp3	wgtp4	wgtp5				
## 1	0	0	0	0	0	0	0	87	28	156	95	26				
## 2	0	0	0	0	0	0	1	539	363	293	422	566				
## 3	0	0	0	0	0	0	0	187	35	184	178	83				
## 4	0	0	0	0	0	0	0	232	406	234	270	249				
## 5	0	0	0	0	0	0	0	107	194	129	41	156				
## 6	0	0	0	0	0	1	0	191	197	127	115	115				
##	wgtp6	wgtp7	wgtp8	wgtp9	wgtp10	wgtp11	wgtp12	wgtp13	wgtp14	wgtp15	wgtp16					
## 1	25	95	93	93	91	87	166	90	25	153	89					
## 2	289	87	242	453	453	334	358	414	102	281	99					
## 3	95	31	32	177	118	110	114	184	107	95	115					
## 4	242	406	249	287	67	72	413	399	77	245	424					
## 5	174	47	113	101	33	115	52	113	95	135	206					
## 6	107	119	34	32	30	123	199	117	33	109	117					
##	wgtp17	wgtp18	wgtp19	wgtp20	wgtp21	wgtp22	wgtp23	wgtp24	wgtp25	wgtp26	wgtp27					
## 1	148	82	25	180	90	24	140	92	25	27	86					
## 2	108	278	131	407	447	264	352	238	390	336	122					
## 3	33	118	120	37	184	35	176	176	110	103	29					
## 4	67	63	226	254	238	69	238	255	239	248	69					
## 5	100	185	135	279	116	33	105	244	38	30	230					
## 6	31	115	201	190	184	198	113	109	117	111	110					
##	wgtp28	wgtp29	wgtp30	wgtp31	wgtp32	wgtp33	wgtp34	wgtp35	wgtp36	wgtp37	wgtp38					
## 1	84	87	93	90	149	91	28	143	81	144	95					
## 2	374	482	468	335	251	613	104	284	116	91	326					

## 3	30	197	127	92	118	177	99	99	109	34	100
## 4	234	247	437	423	74	61	401	267	72	388	335
## 5	123	123	243	120	238	98	90	107	44	122	32
## 6	33	37	36	110	183	114	35	134	119	32	121
##	wgtp39	wgtp40	wgtp41	wgtp42	wgtp43	wgtp44	wgtp45	wgtp46	wgtp47	wgtp48	wgtp49
## 1	27	22	90	171	27	83	153	148	92	91	91
## 2	102	361	107	253	321	289	96	343	564	274	118
## 3	105	33	173	36	168	175	99	103	30	35	155
## 4	229	236	239	65	259	247	230	225	82	220	233
## 5	127	195	116	36	135	237	33	33	249	102	84
## 6	188	33	34	32	109	115	115	112	119	192	186
##	wgtp50	wgtp51	wgtp52	wgtp53	wgtp54	wgtp55	wgtp56	wgtp57	wgtp58	wgtp59	wgtp60
## 1	93	90	26	94	142	24	91	29	84	148	30
## 2	118	321	261	130	463	294	479	391	307	476	283
## 3	102	95	107	185	120	114	113	36	115	103	29
## 4	419	390	69	74	391	276	70	422	409	223	245
## 5	224	119	250	119	125	126	32	112	33	131	45
## 6	213	106	34	124	179	106	107	190	112	34	35
##	wgtp61	wgtp62	wgtp63	wgtp64	wgtp65	wgtp66	wgtp67	wgtp68	wgtp69	wgtp70	wgtp71
## 1	93	143	24	88	147	145	91	83	83	86	81
## 2	116	353	323	374	106	236	380	313	90	94	292
## 3	183	35	179	169	95	110	28	34	233	97	123
## 4	269	488	221	250	247	240	415	234	219	66	68
## 5	101	165	125	41	191	195	49	119	92	44	127
## 6	32	34	119	123	122	121	123	196	196	207	120
##	wgtp72	wgtp73	wgtp74	wgtp75	wgtp76	wgtp77	wgtp78	wgtp79	wgtp80		
## 1	27	93	151	28	79	25	101	157	129		
## 2	401	81	494	346	496	615	286	454	260		
## 3	119	168	107	95	101	30	124	106	31		
## 4	359	385	71	234	421	76	77	242	231		
## 5	36	119	121	116	209	97	176	144	38		
## 6	34	109	199	116	110	211	120	31	189		

```
sum(housingdata$VAL == 24, na.rm = TRUE)
```

```
## [1] 53
```