

R Notebook: descriptive statistics

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```
library(devtools);

## Loading required package: usethis

path.github = "https://raw.githubusercontent.com/MonteShaffer/humanVerseWSU/master/";
```

Descriptive Statistics (Mostly)

Reading

- Read (or at least refer to parts of) [http://www.mshaffer.com/arizona/pdf/Joireman\(2012\).pdf](http://www.mshaffer.com/arizona/pdf/Joireman(2012).pdf)
- Study 1 is EFA (pg 6). First, notice how the sample size is reported with total N, percentage Caucasian, breakdown of gender, and **median** of age. Notice how the KMO test is reported on the last paragraph of that page. Also note the Bartlett’s test and how it is reported: $\chi^2(91) = 614.86, p < .001$ (this is not a formal hypothesis test, it is a description of a formal hypothesis test; I would still label this “descriptive” because it is a diagnostic and not the primary research question). We generally report p-values, and use other notation to report “significance levels”. A “varimax” rotation is a true orthogonal projection; the social sciences often use “oblimin” which means the dimensions may not be orthogonal (see $\Phi = .27$ notation on left side, near bottom of pg 7). Figure 1 shows a scree-plot.

- Study 2 is CFA (bottom, right pg 7). If you forget the “Alpha” column (which is specific to this research question, scale validity), Table 3 is a class “summary statistics” table of the variables examined. M is mean. SD is standard-deviation. And adjacent is the correlation features. Sometimes if correlation gets too large, we build as a separate table. The notation for significance is generally: one-cross $p < .10$; one-star $p < .05$; two-stars $p < .01$; and sometimes three-stars $p < .001$
- Figures 2,3,4 show some of the mechanics of CFA. We will briefly cover that soon. Of note, is that those values can be read as “correlations”. Correlations are reported usually with a lower-case $r = -.33$ with a corresponding p-value cut point: $r = -.33, p < .05$
- Sometimes the sample is also described in a table, reporting just the mean M and SD or similar values.
- Appendix and footnotes (endnotes).
- Bibliography (References).

War stories

One of my undergrad students later became a research assistant for me. She was local, and a twin. We discussed the data collection and the research, and she shared her perspective, documented below that did *NOT* make it into the manuscript:

“Haley is a tall and slender senior in a PAC-10 business college. She believes she is living a typical lifestyle for a college student. During this spotlight of independence known as college, she considers herself a yo-yo healthy eater and a yo-yo exerciser. She feels that healthy eating is about immediate consequences related to her body image. If she is 3 pounds under her ideal, she feels she can splurge (enjoy a burger and fries), eat more often or eat less healthy. Conversely, if she is 3 pounds over her ideal, she begins to watch her diet (replacing a burger with a chicken sandwich) and initiates a two-week exercise episode with her friend. Since she does not like to weigh herself often (she doesn’t want to know), her ideal weight is measured every morning when she puts on her jeans (a few pounds can be the difference between fitting into her size 4 designer jeans or not). If she has to wriggle into her jeans, she puts on a sweatshirt to hide her hips hanging out. This signals her to adjust her yo-yo health behaviors. She doesn’t think too much about her long-term health. Her mom is very skinny (genetics) so she doesn’t really care about health propaganda.”

A review of descriptive statistics

We generally report the mean (M) and standard deviation (SD). We will discuss general forms of “central tendencies” (mean, median, mode) and dispersion in a future notebook.

In the summary statistics table, it is okay to report M / SD for all the variables. In the text, it should be stated according to a variable type.

REMINDER The data is considered SECRET and lives in the Dropbox folder: `_student_access_SECRET_measure-`

- Age: can I be 23.75 years old? Of course! We create standard integer ages, but age is continuous; e.g., “I report that for adult female respondents (age > 18), the average age was about 21 (M = 21.134, SD = 3.14).” [I am making up the values, your analysis will report the real thing. Alternatively, you could report the median age, if you feel that is more appropriate: “The median age is 21 (median=21, IQR=8).” Either way, you could discuss outliers as well.
- Eye color: this is generally designated a factor, and we report those as proportions or percentages (that add up to 100). “The sample consisted of (N = 123) persons of all ages and ethnicities. Of these, 63% reported having brown eyes; 20% reported having blue eyes; 10% reported having green eyes, ...”
- Handedness: which hand is dominant? which eye is dominant? These are factors that may not be mutually exclusive. That is, someone may put “both” or “equally”.

- Quality: this was on a scale of one through ten (1-10). Some people may have answered 9.5; however, the scale is fixed (e.g., an online survey) would not allow a score of 9.5 so you could report the M / SD but in the text should refer to actual values the respondent could choose. “Multiple persons were data collectors. Together, we ascertained the quality of the particular measurement case on a scale of 1-10. Overall, the average score was between 6 and 7 (M = 6.134, SD = 1.2).”
- Household: an average household does not have 3.14 persons. Persons are unique count data. As such, “We report the average household size to be between 3 to 4 persons (M = 3.14, SD = 1.01).”

Building a correlation and summary table

I will demonstrate on a small group of the data, how to build correlation and summary results. You should use the **entire sample** when you do this. You will also need to make certain the “units” are all the same and possibly convert units.

```
library(devtools);
path.github = "https://raw.githubusercontent.com/MonteShaffer/humanVerseWSU/master/";
source_url ( paste0( path.github, "humanVerseWSU/R/functions-file.R" ) );
```

```
## SHA-1 hash of file is 4db75db31c3c8f8309f49c186b82a0d3de83faa6
```

```
# C:\Users\Alexander Nevsky\Dropbox\WSU-419\Fall 2020\__student_access__\_SECRET\_
# paste your file-path above (on Windows)
# highlight, and copy, then run the next line of code in a console.
# path.to.secret = convertDirectoryWin.toR();
```

```
# https://stackoverflow.com/questions/64476043/
# https://stackoverflow.com/questions/1189759/
```

```
path.to.secret = "D:/School/Fall 2020/STAT 419/git/WSU_STATS419_FALL2020/WEEK-10/";
```

```
measure = utils::read.csv( paste0(path.to.secret, "measure-students.txt"), header=TRUE, quote="", sep="
```

```
measure;
```

##	data_collector	person_id	side
## 1	9c2633aaa2d945bb10608ad13c3a11a9	1cef05bce7879e0ffee01b0cb8d78c32	right
## 2	9c2633aaa2d945bb10608ad13c3a11a9	7ccb01feee114272ab008022a14ededb	right
## 3	9c2633aaa2d945bb10608ad13c3a11a9	045e02304948042a658b4faa4bd8e54e	right
## 4	9c2633aaa2d945bb10608ad13c3a11a9	51e383ff163861b0e2fc71e939a5b118	right
## 5	9c2633aaa2d945bb10608ad13c3a11a9	6d672001f80f375570c44439c540bebf	right
## 6	9c2633aaa2d945bb10608ad13c3a11a9	98569fbc2cb9141f60d0ae5cfa7501cb	right
## 7	9c2633aaa2d945bb10608ad13c3a11a9	8d98590f4401d70a1d0a04293499b87c	right
## 8	9c2633aaa2d945bb10608ad13c3a11a9	a9b12538812f18facbfcbd5f2c12663b	right
## 9	9c2633aaa2d945bb10608ad13c3a11a9	7a87fa2f3e4e4ca864a254fef98ecdc0	right
## 10	9c2633aaa2d945bb10608ad13c3a11a9	8e231231fb1ab2d42c266670295eee16	right
## 11	9c2633aaa2d945bb10608ad13c3a11a9	1cef05bce7879e0ffee01b0cb8d78c32	right
## 12	9c2633aaa2d945bb10608ad13c3a11a9	7ccb01feee114272ab008022a14ededb	right
## 13	9c2633aaa2d945bb10608ad13c3a11a9	045e02304948042a658b4faa4bd8e54e	right
## 14	9c2633aaa2d945bb10608ad13c3a11a9	51e383ff163861b0e2fc71e939a5b118	right
## 15	9c2633aaa2d945bb10608ad13c3a11a9	6d672001f80f375570c44439c540bebf	right
## 16	9c2633aaa2d945bb10608ad13c3a11a9	98569fbc2cb9141f60d0ae5cfa7501cb	right

## 17	9c2633aaa2d945bb10608ad13c3a11a9	8d98590f4401d70a1d0a04293499b87c	right
## 18	9c2633aaa2d945bb10608ad13c3a11a9	a9b12538812f18facbfcbd5f2c12663b	right
## 19	9c2633aaa2d945bb10608ad13c3a11a9	7a87fa2f3e4e4ca864a254fef98ecdc0	right
## 20	9c2633aaa2d945bb10608ad13c3a11a9	8e231231fb1ab2d42c266670295eee16	right
## 21	6734f5f4f223d589dc4ff361a310c155	13e647076a48ced264cd8452175c2e15	right
## 22	6734f5f4f223d589dc4ff361a310c155	1088af35708a5b36f1d4e2bb37acdc7	right
## 23	6734f5f4f223d589dc4ff361a310c155	e28999163456cff48b783a89fad8c6d9	right
## 24	6734f5f4f223d589dc4ff361a310c155	09933344d53a61bf9ad3fbe844e173c8	right
## 25	6734f5f4f223d589dc4ff361a310c155	8643d013d64405966b262a0280c0b197	right
## 26	6734f5f4f223d589dc4ff361a310c155	c0e88abe6a0ab110f0f201685c0bd185	right
## 27	6734f5f4f223d589dc4ff361a310c155	5b31d7eefd327c5296826021dd9a4c56	right
## 28	6734f5f4f223d589dc4ff361a310c155	bc679a3aec3b015b11b5c33673d58a31	right
## 29	6734f5f4f223d589dc4ff361a310c155	5ae2cd142c4d754f9cf52879c9df4fc0	right
## 30	6734f5f4f223d589dc4ff361a310c155	112c745f06b882dc111506a76e90a206	right
## 31	fd36e2b3ec59dbd996587454cbb59725	789951a2bbfbf299b0822cc8452f236f	left
## 32	fd36e2b3ec59dbd996587454cbb59725	e4a78a4c43790b174d1132cc72ff8829	left
## 33	fd36e2b3ec59dbd996587454cbb59725	02fd0c9a5c0a52e64e487541c668dbb8	left
## 34	fd36e2b3ec59dbd996587454cbb59725	9f719255d46dd8b9b07935d891dc5295	left
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## 36	fd36e2b3ec59dbd996587454cbb59725	7a0dee5e063bbcbcd68e6e60eb0d8ac2	left
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## 38	fd36e2b3ec59dbd996587454cbb59725	ac11025453a44a174b69354845b985d5	left
## 39	fd36e2b3ec59dbd996587454cbb59725	21a0357f2ca81fcfc9e5502e6ba4c5de	left
## 40	fd36e2b3ec59dbd996587454cbb59725	08982a644b08fcabe920861dcf638039	left
## 41	fd36e2b3ec59dbd996587454cbb59725	7aa407c589c49ea3aa49224367f9aad8	left
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## 58	fd36e2b3ec59dbd996587454cbb59725	7a0dee5e063bbcbcd68e6e60eb0d8ac2	left
## 59	fd36e2b3ec59dbd996587454cbb59725	993be15b8f3ea1fb344718d12c4073fc	left
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## 73	fd36e2b3ec59dbd996587454cbb59725	08982a644b08fcabe920861dcf638039	left
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## 80	c51267de031fb6d879a8abf25d260269	b4216eec77f3aaf926d1b6a1e1512c8e	right
## 81	c51267de031fb6d879a8abf25d260269	516c55f4541512c4672db44137aae2c8	right
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## 83	c51267de031fb6d879a8abf25d260269	2bb88f446d3a78151df3ae67ad006e10	right
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## 85	5a2f371a934f22dffcf1e994cb6eca40	3edc9028bcaab791b8790713cf82d280	right
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## 87	5a2f371a934f22dffcf1e994cb6eca40	c775bb281e5479508ec125fa644ff065	right
## 88	5a2f371a934f22dffcf1e994cb6eca40	5d0a00a4553a324b9f14f2eb6820ada4	right
## 89	5a2f371a934f22dffcf1e994cb6eca40	c7e8ec1734c9626546d613ca12f9dc57	right
## 90	5a2f371a934f22dffcf1e994cb6eca40	cff864eff9ec76edf5a6606be92b33b5	right
## 91	5a2f371a934f22dffcf1e994cb6eca40	19e7e29d12d3eec6776a993acdfca999	right
## 92	5a2f371a934f22dffcf1e994cb6eca40	35d830aeb7087089a94bd6f4c2119268	right
## 93	5a2f371a934f22dffcf1e994cb6eca40	df2f92f65e0119382722048c0fe1aaa9	right
## 94	5a2f371a934f22dffcf1e994cb6eca40	5f5158f2a21600d2670ce6c262276efd	right
## 95	5a2f371a934f22dffcf1e994cb6eca40	4fd772e96e520d598a2d08d5eea733cf	right
## 96	5a2f371a934f22dffcf1e994cb6eca40	a7ca986d375e45fe72aa5b043c0d207e	right
## 97	253a0d24ddff7cbe1b9f621870d9d198	ac56ebdc4dda8269a4a2b52a1d6c7850	right
## 98	253a0d24ddff7cbe1b9f621870d9d198	4303a33a7da3801b36dcde6ff75b6b16	<NA>
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## 107	feaa341d33cedb0f4f7ec731c84e5ba9	be2c146782bc42ee8a28929e2caae9ba	right
## 108	feaa341d33cedb0f4f7ec731c84e5ba9	852e3c313e43b1ae48f3d6bb0a6469d3	right
## 109	feaa341d33cedb0f4f7ec731c84e5ba9	150f21419f5bb180fd931e2fa8640a70	right
## 110	feaa341d33cedb0f4f7ec731c84e5ba9	5a0e79f26da0d6937694d62980dac541	right
## 111	feaa341d33cedb0f4f7ec731c84e5ba9	4bcd32980897662118a17b3483179e82	right
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## 113	feaa341d33cedb0f4f7ec731c84e5ba9	628888963c3e9ac15557b4f124de3a6b	right
## 114	feaa341d33cedb0f4f7ec731c84e5ba9	8c19a02ee368d50c1c2e96dca464fcbe	right
## 115	feaa341d33cedb0f4f7ec731c84e5ba9	71ee1c0873b63a167886a23c02202a18	right
## 116	feaa341d33cedb0f4f7ec731c84e5ba9	942c9d534c5e455b46f5b337ae1311d9	right
## 117	4258362c2bb0d1f95b05ba2bb2e71be9	cee86ca062c513efc86eb507151fbc09	<NA>
## 118	4258362c2bb0d1f95b05ba2bb2e71be9	4733a44073c81970cccbca6e1ede188b	<NA>
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## 124	4258362c2bb0d1f95b05ba2bb2e71be9	4ed967320b733539bfd50c51a5d4748a	<NA>

## 125	4258362c2bb0d1f95b05ba2bb2e71be9	e6ac6d290a0f25518ae5f1632ba68bfc	<NA>
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## 130	97249628ae0697882b877e4aa7342d7b	55195b6de48e7e8dcd54f70cad56d8d3	<NA>
## 131	97249628ae0697882b877e4aa7342d7b	1b83d5da74032b6a750ef12210642eea	<NA>
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## 306	58056c4dc037cb0dbba1ad30215034da	ee9817b969dbd601e367e777a5de7962	left
## 307	e7f9de8678dd0388865077403567b45c	967282cd5d3edbae550d1c4ab643f5ce	right
## 308	e7f9de8678dd0388865077403567b45c	8e244595a666e4311a81757ca88371b8	right
## 309	e7f9de8678dd0388865077403567b45c	7902ed1386067dae936e6639ba7f85a4	right
## 310	e7f9de8678dd0388865077403567b45c	6ea4dc5cd6a84ef12b677bbaabc9fc6f	right
## 311	e7f9de8678dd0388865077403567b45c	4eec8ecba9d91f00de594fa5267d1c98	right
## 312	e7f9de8678dd0388865077403567b45c	49f34c755408a89228f78967771c175f	right
## 313	e7f9de8678dd0388865077403567b45c	aacdcaab42f85782dbafce7a5d26b4b1	right
## 314	e7f9de8678dd0388865077403567b45c	f1b5a149b72512dffa7774d6a793b41b	right
## 315	e7f9de8678dd0388865077403567b45c	15f97b6406102d4ccf285b8063f39f84	right
## 316	e7f9de8678dd0388865077403567b45c	0657038008ee10df1a7dc9e8b25e59a0	right
## 317	b7c953cb6c1f80156d72b012e64c2f5b	830b198e4dbea57bc18d39e4174bd4a4	left
## 318	b7c953cb6c1f80156d72b012e64c2f5b	839d0778a7469b85de24947ff78d9c15	left
## 319	b7c953cb6c1f80156d72b012e64c2f5b	d001d856ebdf0dec03d46283237d5d4	left
## 320	b7c953cb6c1f80156d72b012e64c2f5b	ce9d8ffcc3b2509bdf8bee1e4787b014	left
## 321	b7c953cb6c1f80156d72b012e64c2f5b	ec53b315cf47f7f0a66e0df9d77fe1b7	left
## 322	b7c953cb6c1f80156d72b012e64c2f5b	dfe7ac4bf28ba478a59850d3ca63ceb3	left
## 323	b7c953cb6c1f80156d72b012e64c2f5b	fe37167d943dc7ea355615ecf8c775f9	left
## 324	b7c953cb6c1f80156d72b012e64c2f5b	a815dbe596b632b4fd406210c97257d5	left
## 325	b7c953cb6c1f80156d72b012e64c2f5b	2c7416c8b08edd974800bbf4bcbcd6ba	left
## 326	58056c4dc037cb0dbba1ad30215034da	7a7ad17163012c8f04322273aebfe886	left
## 327	7e6e6a69493f1d54a74ecdd4058ebadf	68097a6cb16bbb5dbd68f19762081469	left
## 328	7e6e6a69493f1d54a74ecdd4058ebadf	338c1ca2a3984271538bc74eae7bef6b	left
## 329	7e6e6a69493f1d54a74ecdd4058ebadf	0c5f10813c5f6befe0da412e67a6aa60	left
## 330	7e6e6a69493f1d54a74ecdd4058ebadf	2b5ea6f3126404c7e4eda7825bed9899	left
## 331	7e6e6a69493f1d54a74ecdd4058ebadf	7b57fe76c35503b0a477d287ea00b37f	left
## 332	7e6e6a69493f1d54a74ecdd4058ebadf	1d6fdbb06fbbf58b46d607cf1685049e	left
## 333	7e6e6a69493f1d54a74ecdd4058ebadf	a8e17797adc14c4a0d5e471e1c51e978	left
## 334	7e6e6a69493f1d54a74ecdd4058ebadf	fb0584aba84a3668a9bbf0470fba3076	left
## 335	7e6e6a69493f1d54a74ecdd4058ebadf	d1c3771b9b322f68e211feb06e6be920	left
## 336	7e6e6a69493f1d54a74ecdd4058ebadf	81a9f3915f64dc6edd329b89bea87d5e	left
## 337	f697d5c9213997cc167707e4f07a8da8	a97ef9def423fd197a090c1cb628a69f	right
## 338	f697d5c9213997cc167707e4f07a8da8	3036ed5a46ad4a5a95f1539c3380b842	right
## 339	f697d5c9213997cc167707e4f07a8da8	425f17c638540b224c07192d531bb3cb	right
## 340	f697d5c9213997cc167707e4f07a8da8	7c1c7202e4c08021c2f734c5c8e2f087	right

```

## 341 f697d5c9213997cc167707e4f07a8da8 92bfa27dc07eba67b807bc12b1718d6f right
## 342 f697d5c9213997cc167707e4f07a8da8 6a2b00bf02f70b2f261665b44e22013a right
## 343 f697d5c9213997cc167707e4f07a8da8 2fb0249a6780ecbd5fee198521790376 right
## 344 f697d5c9213997cc167707e4f07a8da8 14298d51dc6aa40726467279e600b416 right
## 345 f697d5c9213997cc167707e4f07a8da8 d7349aa570a6e2f2211e14679cd3808b right
## 346 f697d5c9213997cc167707e4f07a8da8 c17bb12cc856350de9e81e40946d5310 right
## 347 54da3e417c8efaddfe60f2634e0655ff "fd4c92272d5a952adf7aad11c20458e1" <NA>
## 348 3278ce887bc37a4d45550d5e8a6d6828 "ef1cb6e72d149b184cc241037203f60b" <NA>
## 349 9eb3d5323b1a3c511c3b8c8038727737 "ee33e909372d935d190f4fcb2a92d542" <NA>
## 350 ae042cc7daa59392f0ae30e0d7efea55 "d0fa06cd93335c8cae357ffe5cd1c4e9" <NA>
## 351 7e7c74a4b3543bfd71fdce2f52df44e2 "5d44a032652974c3e53644945a95b126" <NA>
## 352 18ec34f5d5544bbb34ac03bbd62d61cf "3691308f2a4c2f6983f2880d32e29c84" <NA>
## 353 4c2954ca87d25ecb003e253dff6485b7 "1f2dfa567dcf95833eddf7aec167fec7" <NA>
## 354 7e01a8e692e1c5459b716e6af849922e "1e7342845e24eb3b5b3554490da1c128" <NA>
## 355 d4c40ebf6bd149deed005ca123fa3110 "051a9911de7b5bbc610b76f4eda834a0" <NA>
## 356 3a263ca1825c7810dd45e801c9e9f45f "Ã e2075474294983e013ee4dd2201c7a73" <NA>
## 357 ed892caec7a86a00ec5fbefdf5f44faf 6ce9c1c0b4443b31753cd40c34000efd right
## 358 ed892caec7a86a00ec5fbefdf5f44faf b133711dfc55c6e89213c01c58d59703 right
## 359 ed892caec7a86a00ec5fbefdf5f44faf 807d5b3793c7e1f047818dd2611b1589 right
## 360 ed892caec7a86a00ec5fbefdf5f44faf a6d6a2fdf86ad4bc8096955a9f05f1ec right
## 361 ed892caec7a86a00ec5fbefdf5f44faf 74e358b9e1b44ee6129c7eb3344ee658 right
## 362 ed892caec7a86a00ec5fbefdf5f44faf 99a156a62a0944ba6887b90d4fd77b15 right
## 363 ed892caec7a86a00ec5fbefdf5f44faf 48cebdedc0acd343de4853d8e649058d right
## 364 ed892caec7a86a00ec5fbefdf5f44faf fc45e3258bed8dcae88f0dc0b3da94df right
## 365 ed892caec7a86a00ec5fbefdf5f44faf 437d461430ecc08e2d51abbcf5ce9b3c right
## 366 ed892caec7a86a00ec5fbefdf5f44faf 1ef53b7d22b7e7eafc7c7524078ac709 right
## 367 86687ae28f9bf74f509bc9cff3e967fe 4e87b49a355ca3040c49e3f513e07a7b right
## 368 86687ae28f9bf74f509bc9cff3e967fe 42cf3ac3c39863c610fd0c41888fbcf4 right
## 369 86687ae28f9bf74f509bc9cff3e967fe 8545c7da3bff6d5e778c19a8e759e351 right
## 370 86687ae28f9bf74f509bc9cff3e967fe 2264bdbc3a7aae3cb9b76b698f187fcf right
## 371 86687ae28f9bf74f509bc9cff3e967fe 0eeb85d58ab4b0dee8fe59e66fd1aa77 right
## 372 86687ae28f9bf74f509bc9cff3e967fe 1914e0a159363f777885a7f1faca745c right
## 373 86687ae28f9bf74f509bc9cff3e967fe b571d735f163b7bc0d011649a9577981 right
## 374 86687ae28f9bf74f509bc9cff3e967fe 94d8bb7c1e4e9711d4e3bbb0615216e5 right
## 375 86687ae28f9bf74f509bc9cff3e967fe 39a76aa6cff34621da972e912ea7437f right
## 376 86687ae28f9bf74f509bc9cff3e967fe aa0f777f2621c645eb8ebc33644c1fc8 right
## 377 ecfaf244516c0630fcd6f6babceabbb c6b2f100d6271c6090f4275221ed6acd right
## 378 ecfaf244516c0630fcd6f6babceabbb 10b30419e35ec26acc14169166056031 right
## 379 ecfaf244516c0630fcd6f6babceabbb a0efd91ed85b6c75933d3381b8cb634f right
## 380 67e1e1164469564c1513c6826d7f2372 256797eb19c0fa5688bb135ac9441f2d right
## 381 5ec754244f7607ffe7adb8de39646687 8ecc0180e629c0d5450b50a4c9780587 right
## 382 b5308193c0efcd28009d8b24742fda85 6cbfe40d341ebdb303629ddc4f360e7b right
## 383 0e672b35628c692c17853f0c53986f17 5c2f639550d9c99da8a2eefb68a5f1b6 right
## 384 629993a0da2e6179b41e20bc5f666120 8764c922d792e1b418a3cca4f8dc01f8 right
## 385 92c08bfae43328e218bb8bb66d0e9a72 5b96477ccce605e4a4ded6b6bf0f6931 right
## 386 448246f05cc1bd4128b33465736ceecc 89ef50937da644537ff6b0617aa19b30 right
## 387 18a53b0cfa2bcde3c1d12e74a2e10268 3fce10bbeef92f3fcf4937defb21c93e right
## 388 18a53b0cfa2bcde3c1d12e74a2e10268 6a7c9f8d886b5f55dede69fdd6cfbd9d right
## 389 18a53b0cfa2bcde3c1d12e74a2e10268 857efaebd410cc6683fb9e077e78222f right
## 390 18a53b0cfa2bcde3c1d12e74a2e10268 4c86080cbd757fa1edd60b453d88c744 right
## 391 18a53b0cfa2bcde3c1d12e74a2e10268 705374c66ddd3501ccffd1d54655411a right
## 392 18a53b0cfa2bcde3c1d12e74a2e10268 0fee659d076b30c1c9fbd0ee7da70afb right
## 393 18a53b0cfa2bcde3c1d12e74a2e10268 315231a7937b3434f3161307f49d491b right
## 394 18a53b0cfa2bcde3c1d12e74a2e10268 9f1e5a14a0baf69bc7d5d658ddb53338 right

```

```

## 395 18a53b0cfa2bcde3c1d12e74a2e10268 d770a59f57acae2bf7e703192ba8ee50 right
## 396 18a53b0cfa2bcde3c1d12e74a2e10268 ce29d8c585d5abd57d61abc6d1cef92a right
## 397 0185c7c2eed9d48197953305a817c8b1 0c22828099b789d62a96fc1f87928f43 right
## 398 0185c7c2eed9d48197953305a817c8b1 e821ba1edb9dc0a445b61d8ce702052a right
## 399 0185c7c2eed9d48197953305a817c8b1 6b34fe24ac2ff8103f6fce1f0da2ef57 right
## 400 0185c7c2eed9d48197953305a817c8b1 0f91a4e5bcb75e278d54f8cca555cc4b right
## 401 0185c7c2eed9d48197953305a817c8b1 10c7ccc7a4f0aff03c915c485565b9da right
## 402 0185c7c2eed9d48197953305a817c8b1 559a7f208866f0063b1ea8d5ca2ee816 right
## 403 0185c7c2eed9d48197953305a817c8b1 a1361cb85be840d6a2d762c68e4910e2 right
## 404 0185c7c2eed9d48197953305a817c8b1 e6d9c335f6aa36754461e4dd4db30274 right
## 405 0185c7c2eed9d48197953305a817c8b1 d6ba0682d75eb986237fb6b594f8a31f right
## 406 0185c7c2eed9d48197953305a817c8b1 5844a15e76563fedd11840fd6f40ea7b right
## 407 b16ae1eae8d7351e997e8faf1f734d2c 6d7edc4358342d5ef92c052cb7c82057 right
## 408 b16ae1eae8d7351e997e8faf1f734d2c bba47c925f1a291bc29bd58d19877c27 right
## 409 b16ae1eae8d7351e997e8faf1f734d2c 90e69f264a8c970f3222cf85e08425aa right
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## 411 b16ae1eae8d7351e997e8faf1f734d2c 9f719255d46dd8b9b07935d891dc5295 right
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## 416 b16ae1eae8d7351e997e8faf1f734d2c ea6212772478ee71edd91f89af72c134 N/A
## 417 d22301490fef91bdc398d00a35c7b790 6c1a5b12d4bd24ab2966ee3f04252c40 right
## 418 fd540e43a7112f833051d2ed1fdbbbf0 281879078eb44eb9abee3125dfdf224a right
## 419 fd540e43a7112f833051d2ed1fdbbbf0 7ec6624767095490c469559de77ae043 right
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## 421 59944aec47699b65f6a93c79913f64cd 87b84e65079f3a08a474971aa7f355ed right
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## height.NA head.height.NA head.circumference.NA hand.length.left
## 1 152.100 23.000 NA 17.0000
## 2 174.000 22.100 NA 19.0000
## 3 168.000 18.000 NA 15.0000
## 4 164.000 23.000 NA 17.0000
## 5 181.000 26.000 NA 20.0000
## 6 156.200 22.500 NA 18.2000
## 7 154.300 22.500 NA 17.2000
## 8 154.300 23.000 NA 17.0000
## 9 172.700 20.000 NA 18.0000
## 10 164.000 23.000 NA 17.0000
## 11 152.100 23.000 NA 17.0000
## 12 174.000 22.100 NA 19.0000
## 13 168.000 18.000 NA 15.0000
## 14 164.000 23.000 NA 17.0000
## 15 181.000 26.000 NA 20.0000
## 16 156.200 22.500 NA 18.2000
## 17 154.300 22.500 NA 17.2000
## 18 154.300 23.000 NA 17.0000
## 19 172.700 20.000 NA 18.0000

```

## 20	164.000	23.000	NA	17.0000
## 21	145.000	18.800	55.300	17.0000
## 22	181.000	24.300	58.500	18.3000
## 23	152.600	18.300	54.700	17.2000
## 24	169.500	21.000	56.000	18.5000
## 25	164.900	19.100	57.200	17.3000
## 26	153.600	22.200	64.000	18.2000
## 27	177.800	20.500	59.300	19.0000
## 28	168.300	22.200	58.600	17.4000
## 29	170.100	22.500	57.700	17.3000
## 30	151.600	19.900	55.100	16.0000
## 31	69.750	9.250	22.250	7.6250
## 32	44.750	6.500	19.500	4.8750
## 33	47.750	7.000	19.250	5.2500
## 34	71.500	9.250	23.500	7.8750
## 35	63.500	9.000	21.500	6.8750
## 36	45.000	6.000	20.000	5.0000
## 37	61.125	7.500	21.875	7.2500
## 38	65.625	8.625	22.125	7.1875
## 39	62.000	8.750	22.000	6.5000
## 40	70.500	9.125	22.875	8.0000
## 41	62.250	8.750	22.375	6.7500
## 42	69.750	9.250	22.250	7.6250
## 43	44.750	6.500	19.500	4.8750
## 44	47.750	7.000	19.250	5.2500
## 45	71.500	9.250	23.500	7.8750
## 46	63.500	9.000	21.500	6.8750
## 47	45.000	6.000	20.000	5.0000
## 48	61.125	7.500	21.875	7.2500
## 49	65.625	8.625	22.125	7.1875
## 50	62.000	8.750	22.000	6.5000
## 51	70.500	9.125	22.875	8.0000
## 52	62.250	8.750	22.375	6.7500
## 53	69.750	9.250	22.250	7.6250
## 54	44.750	6.500	19.500	4.8750
## 55	47.750	7.000	19.250	5.2500
## 56	71.500	9.250	23.500	7.8750
## 57	63.500	9.000	21.500	6.8750
## 58	45.000	6.000	20.000	5.0000
## 59	61.125	7.500	21.875	7.2500
## 60	65.625	8.625	22.125	7.1875
## 61	62.000	8.750	22.000	6.5000
## 62	70.500	9.125	22.875	8.0000
## 63	62.250	8.750	22.375	6.7500
## 64	69.750	9.250	22.250	7.6250
## 65	44.750	6.500	19.500	4.8750
## 66	47.750	7.000	19.250	5.2500
## 67	71.500	9.250	23.500	7.8750
## 68	63.500	9.000	21.500	6.8750
## 69	45.000	6.000	20.000	5.0000
## 70	61.125	7.500	21.875	7.2500
## 71	65.625	8.625	22.125	7.1875
## 72	62.000	8.750	22.000	6.5000
## 73	70.500	9.125	22.875	8.0000

## 74	62.250	8.750	22.375	6.7500
## 75	178.000	21.000	59.000	19.5000
## 76	181.610	20.320	58.000	17.7800
## 77	175.400	19.600	56.000	17.0000
## 78	161.000	18.000	51.000	16.0000
## 79	165.000	18.500	53.000	16.0000
## 80	186.000	21.000	59.000	18.0000
## 81	184.000	20.500	59.000	18.0000
## 82	159.000	18.000	52.000	16.0000
## 83	185.500	21.000	59.000	18.0000
## 84	185.000	21.000	61.000	18.0000
## 85	183.000	23.000	58.000	19.5000
## 86	166.500	20.500	53.500	18.0000
## 87	157.500	23.000	55.000	18.0000
## 88	171.500	22.000	53.000	9.0000
## 89	178.000	23.000	59.000	20.0000
## 90	168.000	20.000	56.000	19.0000
## 91	170.000	27.000	56.000	17.5000
## 92	178.000	24.000	58.000	18.5000
## 93	183.000	25.000	23.000	21.0000
## 94	175.000	27.000	56.000	16.0000
## 95	161.000	21.000	52.000	16.0000
## 96	185.000	24.000	57.000	21.0000
## 97	69.000	9.500	23.200	7.7500
## 98	63.000	NA	22.500	6.7500
## 99	42.500	NA	20.500	4.7500
## 100	33.500	NA	19.500	3.7500
## 101	63.000	NA	22.000	6.5000
## 102	69.000	NA	24.200	7.0000
## 103	65.000	NA	23.000	6.7500
## 104	65.000	NA	22.500	7.0000
## 105	62.000	NA	21.500	6.5000
## 106	72.000	NA	23.250	7.5000
## 107	175.260	23.495	58.420	18.7000
## 108	165.100	21.590	53.340	16.5100
## 109	177.800	24.765	58.420	19.6850
## 110	NA	22.860	58.420	NA
## 111	NA	27.940	55.880	NA
## 112	NA	23.495	58.420	NA
## 113	NA	22.225	60.325	NA
## 114	NA	27.940	60.960	NA
## 115	NA	23.495	62.230	NA
## 116	NA	26.416	52.070	NA
## 117	187.960	23.495	NA	NA
## 118	161.290	20.320	NA	NA
## 119	147.320	21.590	NA	NA
## 120	142.875	21.590	NA	NA
## 121	132.715	21.590	NA	NA
## 122	157.480	21.590	NA	NA
## 123	NA	21.000	NA	18.5000
## 124	NA	23.000	NA	19.5000
## 125	147.320	22.860	NA	13.9700
## 126	180.500	21.500	60.000	18.5000
## 127	180.300	25.400	55.900	18.5000

## 128	163.800	22.900	57.200	17.8000
## 129	180.300	24.100	59.700	19.1000
## 130	159.000	22.900	54.600	17.1000
## 131	181.000	25.400	60.300	19.7000
## 132	190.000	24.000	58.000	21.5000
## 133	191.100	26.700	56.500	19.7000
## 134	180.000	29.500	59.000	19.0000
## 135	169.000	24.000	58.000	18.0000
## 136	178.000	29.000	57.000	17.5000
## 137	180.300	25.400	55.900	18.5000
## 138	163.800	22.900	57.200	17.8000
## 139	180.300	24.100	59.700	19.1000
## 140	159.000	22.900	54.600	17.1000
## 141	181.000	25.400	60.300	19.7000
## 142	190.000	24.000	58.000	21.5000
## 143	191.100	26.700	56.500	19.7000
## 144	180.000	29.500	59.000	19.0000
## 145	169.000	24.000	58.000	18.0000
## 146	178.000	29.000	57.000	17.5000
## 147	180.300	25.400	55.900	18.5000
## 148	163.800	22.900	57.200	17.8000
## 149	180.300	24.100	59.700	19.1000
## 150	159.000	22.900	54.600	17.1000
## 151	181.000	25.400	60.300	19.7000
## 152	190.000	24.000	58.000	21.5000
## 153	191.100	26.700	56.500	19.7000
## 154	180.000	29.500	59.000	19.0000
## 155	169.000	24.000	58.000	18.0000
## 156	178.000	29.000	57.000	17.5000
## 157	180.300	25.400	55.900	18.5000
## 158	163.800	22.900	57.200	17.8000
## 159	180.300	24.100	59.700	19.1000
## 160	159.000	22.900	54.600	17.1000
## 161	181.000	25.400	60.300	19.7000
## 162	190.000	24.000	58.000	21.5000
## 163	191.100	26.700	56.500	19.7000
## 164	180.000	29.500	59.000	19.0000
## 165	169.000	24.000	58.000	18.0000
## 166	178.000	29.000	57.000	17.5000
## 167	180.300	25.400	55.900	18.5000
## 168	163.800	22.900	57.200	17.8000
## 169	180.300	24.100	59.700	19.1000
## 170	159.000	22.900	54.600	17.1000
## 171	181.000	25.400	60.300	19.7000
## 172	190.000	24.000	58.000	21.5000
## 173	191.100	26.700	56.500	19.7000
## 174	180.000	29.500	59.000	19.0000
## 175	169.000	24.000	58.000	18.0000
## 176	178.000	29.000	57.000	17.5000
## 177	180.300	25.400	55.900	18.5000
## 178	163.800	22.900	57.200	17.8000
## 179	180.300	24.100	59.700	19.1000
## 180	159.000	22.900	54.600	17.1000
## 181	181.000	25.400	60.300	19.7000

## 182	190.000	24.000	58.000	21.5000
## 183	191.100	26.700	56.500	19.7000
## 184	180.000	29.500	59.000	19.0000
## 185	169.000	24.000	58.000	18.0000
## 186	178.000	29.000	57.000	17.5000
## 187	180.300	25.400	55.900	18.5000
## 188	163.800	22.900	57.200	17.8000
## 189	180.300	24.100	59.700	19.1000
## 190	159.000	22.900	54.600	17.1000
## 191	181.000	25.400	60.300	19.7000
## 192	190.000	24.000	58.000	21.5000
## 193	191.100	26.700	56.500	19.7000
## 194	180.000	29.500	59.000	19.0000
## 195	169.000	24.000	58.000	18.0000
## 196	178.000	29.000	57.000	17.5000
## 197	180.300	25.400	55.900	18.5000
## 198	163.800	22.900	57.200	17.8000
## 199	180.300	24.100	59.700	19.1000
## 200	159.000	22.900	54.600	17.1000
## 201	181.000	25.400	60.300	19.7000
## 202	190.000	24.000	58.000	21.5000
## 203	191.100	26.700	56.500	19.7000
## 204	180.000	29.500	59.000	19.0000
## 205	169.000	24.000	58.000	18.0000
## 206	178.000	29.000	57.000	17.5000
## 207	180.300	25.400	55.900	18.5000
## 208	163.800	22.900	57.200	17.8000
## 209	180.300	24.100	59.700	19.1000
## 210	159.000	22.900	54.600	17.1000
## 211	181.000	25.400	60.300	19.7000
## 212	190.000	24.000	58.000	21.5000
## 213	191.100	26.700	56.500	19.7000
## 214	180.000	29.500	59.000	19.0000
## 215	169.000	24.000	58.000	18.0000
## 216	178.000	29.000	57.000	17.5000
## 217	180.300	25.400	55.900	18.5000
## 218	163.800	22.900	57.200	17.8000
## 219	180.300	24.100	59.700	19.1000
## 220	159.000	22.900	54.600	17.1000
## 221	181.000	25.400	60.300	19.7000
## 222	190.000	24.000	58.000	21.5000
## 223	191.100	26.700	56.500	19.7000
## 224	180.000	29.500	59.000	19.0000
## 225	169.000	24.000	58.000	18.0000
## 226	178.000	29.000	57.000	17.5000
## 227	143.500	22.000	56.000	17.0000
## 228	177.000	24.000	57.000	19.5000
## 229	175.000	21.500	59.500	19.5000
## 230	175.000	21.500	55.500	19.0000
## 231	177.000	22.000	58.000	20.5000
## 232	166.000	20.000	56.500	18.5000
## 233	174.000	22.000	57.500	19.0000
## 234	183.000	23.000	57.500	19.5000
## 235	93.000	20.000	51.000	12.5000

## 236	178.000	23.000	59.500	20.0000
## 237	151.130	20.500	53.500	15.5000
## 238	165.100	23.000	55.000	19.0000
## 239	157.480	20.000	53.500	16.5000
## 240	174.625	23.500	61.000	19.5000
## 241	167.000	22.000	55.000	20.0000
## 242	170.000	24.000	57.000	21.0000
## 243	154.000	21.000	56.200	16.5000
## 244	167.640	24.000	58.500	18.0000
## 245	185.000	25.000	59.000	20.0000
## 246	172.000	22.000	58.000	17.0000
## 247	62.500	9.000	21.750	6.5000
## 248	68.000	8.250	22.000	7.2500
## 249	71.000	9.500	22.000	8.0000
## 250	175.500	24.000	59.000	18.5000
## 251	36.000	6.500	20.000	5.0000
## 252	70.000	10.000	23.000	8.0000
## 253	36.000	6.500	20.000	5.0000
## 254	63.000	9.000	22.000	8.0000
## 255	36.000	6.500	20.000	5.0000
## 256	62.500	9.000	21.000	7.0000
## 257	62.500	9.000	21.750	6.5000
## 258	68.000	8.250	22.000	7.2500
## 259	71.000	9.500	22.000	8.0000
## 260	175.500	24.000	59.000	18.5000
## 261	36.000	6.500	20.000	5.0000
## 262	70.000	10.000	23.000	8.0000
## 263	36.000	6.500	20.000	5.0000
## 264	63.000	9.000	22.000	8.0000
## 265	36.000	6.500	20.000	5.0000
## 266	62.500	9.000	21.000	7.0000
## 267	62.500	9.000	21.750	6.5000
## 268	68.000	8.250	22.000	7.2500
## 269	71.000	9.500	22.000	8.0000
## 270	175.500	24.000	59.000	18.5000
## 271	36.000	6.500	20.000	5.0000
## 272	70.000	10.000	23.000	8.0000
## 273	36.000	6.500	20.000	5.0000
## 274	63.000	9.000	22.000	8.0000
## 275	36.000	6.500	20.000	5.0000
## 276	62.500	9.000	21.000	7.0000
## 277	180.500	26.500	60.500	21.5000
## 278	160.000	20.000	55.500	18.0000
## 279	175.000	24.000	58.000	24.0000
## 280	180.000	23.000	58.500	20.5000
## 281	158.000	24.500	55.500	16.5000
## 282	182.500	25.000	56.000	19.0000
## 283	168.000	26.000	57.000	19.0000
## 284	181.000	25.500	61.000	22.0000
## 285	155.000	22.000	57.000	17.5000
## 286	176.000	24.000	58.500	22.0000
## 287	180.500	26.500	60.500	21.5000
## 288	160.000	20.000	55.500	18.0000
## 289	175.000	24.000	58.000	24.0000

## 290	180.000	23.000	58.500	20.5000
## 291	158.000	24.500	55.500	16.5000
## 292	182.500	25.000	56.000	19.0000
## 293	168.000	26.000	57.000	19.0000
## 294	181.000	25.500	61.000	22.0000
## 295	155.000	22.000	57.000	17.5000
## 296	176.000	24.000	58.500	22.0000
## 297	61.500	8.000	21.250	6.5000
## 298	70.000	9.250	22.500	7.3300
## 299	59.875	8.250	20.500	7.4500
## 300	69.660	8.250	21.250	8.2500
## 301	63.750	7.500	21.000	7.2500
## 302	72.000	9.000	23.000	7.5000
## 303	63.000	8.330	20.500	7.0000
## 304	66.250	8.100	20.000	7.0000
## 305	74.000	8.000	23.000	7.7500
## 306	65.000	8.250	23.000	7.0000
## 307	173.000	22.000	54.500	17.5000
## 308	167.000	18.000	53.000	18.0000
## 309	157.000	19.000	53.500	16.0000
## 310	158.000	24.000	53.000	17.0000
## 311	162.000	22.500	56.000	18.0000
## 312	168.000	28.000	53.000	19.0000
## 313	151.000	20.000	56.000	18.5000
## 314	149.000	29.000	54.000	16.5000
## 315	159.000	23.000	54.000	16.5000
## 316	162.000	22.500	58.000	17.5000
## 317	68.500	9.875	23.750	7.5000
## 318	67.000	7.250	22.000	6.5000
## 319	70.000	10.000	22.500	7.0000
## 320	60.000	9.500	22.000	6.2500
## 321	70.000	8.000	22.250	87.8750
## 322	63.750	7.750	21.750	7.0000
## 323	64.000	8.500	22.500	7.0000
## 324	71.000	8.000	23.000	7.0000
## 325	63.250	7.500	22.000	7.0000
## 326	72.500	8.250	22.750	7.5000
## 327	158.000	22.000	53.500	17.0000
## 328	172.000	24.000	56.000	19.5000
## 329	190.500	22.250	57.250	21.0000
## 330	180.250	21.500	55.500	20.0000
## 331	158.000	20.500	57.000	16.5000
## 332	178.000	22.000	54.000	17.0000
## 333	173.000	20.000	21.500	18.5000
## 334	162.500	20.300	55.800	17.0000
## 335	168.000	20.000	55.000	18.0000
## 336	182.880	20.000	61.000	20.0000
## 337	169.000	22.000	58.000	19.5000
## 338	158.000	21.500	57.000	18.0000
## 339	137.000	23.000	54.000	17.0000
## 340	162.000	24.000	56.000	20.0000
## 341	160.000	23.000	54.000	19.0000
## 342	171.000	23.000	57.000	19.0000
## 343	140.000	20.000	55.000	17.0000

## 344	154.000	23.500	57.000	19.0000
## 345	148.000	24.000	57.000	17.0000
## 346	148.000	23.000	54.000	17.0000
## 347	72.000	9.250	22.500	7.5000
## 348	67.000	15.000	23.750	7.0000
## 349	10.750	8.000	22.300	7.8000
## 350	68.700	8.000	21.800	7.3000
## 351	69.500	7.500	21.800	8.0000
## 352	64.000	13.000	23.000	7.5000
## 353	69.750	8.250	21.750	7.2500
## 354	67.000	9.000	23.000	7.2500
## 355	73.800	8.750	24.000	8.3000
## 356	68.000	8.500	22.250	7.2500
## 357	175.600	21.000	53.800	18.5000
## 358	175.500	20.000	55.000	20.0000
## 359	176.000	20.500	56.000	20.0000
## 360	158.000	17.500	56.000	15.8000
## 361	169.600	20.600	58.000	17.0000
## 362	165.900	21.000	56.000	17.7000
## 363	168.000	23.000	57.000	17.0000
## 364	168.500	21.000	55.500	18.8000
## 365	186.000	21.500	59.500	20.2000
## 366	170.000	18.500	56.000	19.0000
## 367	168.900	21.500	55.500	19.0000
## 368	181.000	22.800	56.000	19.7000
## 369	160.000	22.000	61.000	17.5000
## 370	173.000	25.000	58.400	18.8000
## 371	163.000	22.000	55.000	17.0000
## 372	185.400	24.300	58.000	18.4000
## 373	163.000	21.000	54.000	15.0000
## 374	167.000	23.000	55.500	18.0000
## 375	167.700	31.000	57.600	21.0000
## 376	167.700	30.000	54.600	17.8000
## 377	63.000	7.500	22.000	7.0000
## 378	58.500	7.500	23.000	6.2500
## 379	65.000	7.250	21.250	7.0000
## 380	69.000	7.000	22.300	6.5000
## 381	68.000	7.250	17.500	8.0000
## 382	68.000	8.500	20.250	8.5000
## 383	70.000	8.500	19.000	8.7500
## 384	60.000	7.750	20.000	6.2500
## 385	60.500	9.000	23.000	6.5000
## 386	66.000	7.750	21.000	7.2500
## 387	167.500	25.000	58.000	19.5000
## 388	172.500	22.500	60.700	20.0000
## 389	182.500	23.000	62.500	20.0000
## 390	189.000	22.000	58.000	20.0000
## 391	182.000	23.500	59.000	20.4000
## 392	180.500	22.000	63.000	19.7000
## 393	67.750	9.000	23.500	7.5000
## 394	62.000	8.000	21.500	7.0000
## 395	61.000	8.500	22.500	7.5000
## 396	177.500	24.000	60.500	19.0000
## 397	185.000	23.000	59.000	19.0000

## 398	188.000	22.500	59.000	19.5000
## 399	184.000	24.000	58.500	21.0000
## 400	173.000	22.000	57.000	17.0000
## 401	178.000	24.000	60.000	21.0000
## 402	160.000	23.500	55.000	17.0000
## 403	184.500	24.000	56.000	20.0000
## 404	165.000	23.000	56.000	18.0000
## 405	180.500	21.500	58.500	19.0000
## 406	158.000	23.000	56.000	17.0000
## 407	163.800	20.800	27.200	17.2000
## 408	167.600	21.000	57.700	17.5000
## 409	166.900	20.800	57.100	16.7000
## 410	160.200	21.590	57.100	17.8000
## 411	189.400	21.300	64.100	19.2000
## 412	165.700	21.700	55.400	15.3000
## 413	166.600	20.100	59.200	16.4000
## 414	176.800	20.100	56.400	16.6000
## 415	180.600	20.500	59.400	175.2000
## 416	172.200	19.100	57.400	17.5000
## 417	188.000	24.500	58.500	20.0000
## 418	170.180	25.400	57.785	18.5000
## 419	154.940	20.955	55.245	19.6850
## 420	164.465	20.955	56.100	18.0975
## 421	177.800	22.860	58.500	19.6850
## 422	158.750	18.415	50.500	17.1450
## 423	133.350	19.050	48.750	15.2400
## 424	176.530	21.590	58.250	19.6850
## 425	171.450	20.320	55.500	17.7800
## 426	162.560	20.320	53.000	17.7800
## 427	162.560	20.320	53.000	17.7800
## 428	162.560	20.320	53.000	17.7800
##	hand.length.right	hand.width.left	hand.width.right	hand.elbow.left
## 1	16.9000	18.2000	18.1000	34.8000
## 2	18.1000	20.0000	19.4000	45.0000
## 3	NA	14.0000	NA	52.0000
## 4	17.0000	19.0000	19.0000	39.0000
## 5	20.0000	24.0000	24.0000	43.0000
## 6	18.5000	20.2000	20.4000	37.1000
## 7	16.9000	18.6000	19.0000	36.9000
## 8	17.0000	18.5000	18.5000	36.0000
## 9	NA	14.0000	NA	38.5000
## 10	17.0000	19.0000	NA	38.7000
## 11	16.9000	18.2000	18.1000	34.8000
## 12	18.1000	20.0000	19.4000	45.0000
## 13	NA	14.0000	NA	52.0000
## 14	17.0000	19.0000	19.0000	39.0000
## 15	20.0000	24.0000	24.0000	43.0000
## 16	18.5000	20.2000	20.4000	37.1000
## 17	16.9000	18.6000	19.0000	36.9000
## 18	17.0000	18.5000	18.5000	36.0000
## 19	NA	14.0000	NA	38.5000
## 20	17.0000	19.0000	NA	38.7000
## 21	17.0000	16.1000	16.5000	40.0000
## 22	17.5000	18.2000	19.0000	46.4000

## 23	17.2000	17.8000	17.3000	38.0000
## 24	18.2000	19.9000	19.2000	44.4000
## 25	17.1000	17.5000	17.9000	41.8000
## 26	18.2000	19.4000	19.9000	43.4000
## 27	18.2000	23.0000	21.0000	47.1000
## 28	17.0000	18.5000	19.3000	44.3000
## 29	17.0000	19.5000	18.8000	44.4000
## 30	16.6000	18.0000	16.2000	39.7000
## 31	7.5000	8.6250	8.5000	19.0000
## 32	5.0000	5.5000	5.5000	11.2500
## 33	5.1250	5.8750	6.0000	12.5000
## 34	7.7500	9.0000	9.0000	19.2500
## 35	6.8750	7.5000	7.8750	16.5000
## 36	5.0000	5.3750	5.5000	12.1250
## 37	7.1250	7.0625	7.3750	16.1250
## 38	7.1250	8.5000	8.0000	17.1875
## 39	6.3750	7.5625	7.5000	17.0000
## 40	8.0000	8.3750	8.3750	19.1250
## 41	6.8750	8.0000	8.1250	16.8750
## 42	7.5000	8.6250	8.5000	19.0000
## 43	5.0000	5.5000	5.5000	11.2500
## 44	5.1250	5.8750	6.0000	12.5000
## 45	7.7500	9.0000	9.0000	19.2500
## 46	6.8750	7.5000	7.8750	16.5000
## 47	5.0000	5.3750	5.5000	12.1250
## 48	7.1250	7.0625	7.3750	16.1250
## 49	7.1250	8.5000	8.0000	17.1875
## 50	6.3750	7.5625	7.5000	17.0000
## 51	8.0000	8.3750	8.3750	19.1250
## 52	6.8750	8.0000	8.1250	16.8750
## 53	7.5000	8.6250	8.5000	19.0000
## 54	5.0000	5.5000	5.5000	11.2500
## 55	5.1250	5.8750	6.0000	12.5000
## 56	7.7500	9.0000	9.0000	19.2500
## 57	6.8750	7.5000	7.8750	16.5000
## 58	5.0000	5.3750	5.5000	12.1250
## 59	7.1250	7.0625	7.3750	16.1250
## 60	7.1250	8.5000	8.0000	17.1875
## 61	6.3750	7.5625	7.5000	17.0000
## 62	8.0000	8.3750	8.3750	19.1250
## 63	6.8750	8.0000	8.1250	16.8750
## 64	7.5000	8.6250	8.5000	19.0000
## 65	5.0000	5.5000	5.5000	11.2500
## 66	5.1250	5.8750	6.0000	12.5000
## 67	7.7500	9.0000	9.0000	19.2500
## 68	6.8750	7.5000	7.8750	16.5000
## 69	5.0000	5.3750	5.5000	12.1250
## 70	7.1250	7.0625	7.3750	16.1250
## 71	7.1250	8.5000	8.0000	17.1875
## 72	6.3750	7.5625	7.5000	17.0000
## 73	8.0000	8.3750	8.3750	19.1250
## 74	6.8750	8.0000	8.1250	16.8750
## 75	19.0000	22.0000	21.5000	45.0000
## 76	17.7800	22.8600	22.8600	46.2280

## 77	17.1000	22.1000	22.1000	44.6000
## 78	16.0000	20.0000	20.0000	41.0000
## 79	16.0000	21.0000	21.0000	42.0000
## 80	18.0000	23.0000	23.0000	47.0000
## 81	18.0000	23.0000	23.0000	47.0000
## 82	16.0000	20.0000	20.0000	41.0000
## 83	18.0000	23.0000	23.0000	47.0000
## 84	18.0000	23.0000	23.0000	48.0000
## 85	19.5000	21.0000	21.5000	40.5000
## 86	18.0000	19.0000	19.0000	40.5000
## 87	18.0000	18.0000	18.0000	39.5000
## 88	7.0000	10.0000	10.0000	30.0000
## 89	20.0000	23.0000	22.5000	23.5000
## 90	20.0000	21.0000	21.0000	41.0000
## 91	18.0000	20.0000	21.0000	45.0000
## 92	18.5000	21.5000	21.5000	44.5000
## 93	21.0000	10.0000	10.0000	47.0000
## 94	17.0000	10.0000	11.5000	43.5000
## 95	16.0000	10.0000	10.0000	37.5000
## 96	21.0000	11.0000	11.0000	44.0000
## 97	7.6000	8.3000	8.2500	11.2500
## 98	6.7500	7.5000	7.5000	NA
## 99	4.5000	5.5000	5.7500	NA
## 100	3.5000	4.5000	4.5000	NA
## 101	6.5000	7.0000	7.5000	NA
## 102	7.0000	8.5000	8.0000	NA
## 103	6.7500	8.0000	8.0000	NA
## 104	7.0000	8.2500	8.5000	NA
## 105	6.5000	7.2500	7.5000	NA
## 106	7.5000	8.2500	8.5000	NA
## 107	19.0500	20.1000	20.2500	45.7200
## 108	16.5100	12.7000	12.7000	40.0050
## 109	19.6850	12.7000	11.4300	46.3500
## 110	19.3040	NA	14.6050	NA
## 111	15.2400	NA	15.2400	NA
## 112	19.0500	NA	17.1450	NA
## 113	19.0500	NA	17.7800	NA
## 114	20.3200	NA	15.2400	NA
## 115	19.6850	NA	15.2400	NA
## 116	16.5100	NA	13.9700	NA
## 117	20.3200	NA	24.1300	NA
## 118	17.7800	NA	20.3200	NA
## 119	16.5100	NA	19.0500	NA
## 120	15.8750	NA	17.1450	NA
## 121	13.9700	NA	15.8750	NA
## 122	14.6050	NA	15.8750	NA
## 123	NA	21.5000	NA	40.5000
## 124	NA	24.0000	NA	49.5000
## 125	NA	15.2500	NA	35.5600
## 126	19.0000	21.5000	21.0000	46.0000
## 127	18.5000	NA	NA	48.3000
## 128	17.8000	NA	NA	43.2000
## 129	19.1000	NA	NA	47.0000
## 130	17.1000	NA	NA	42.5000

## 131	19.7000	NA	NA	49.5000
## 132	21.5000	NA	NA	48.0000
## 133	19.7000	NA	NA	50.5000
## 134	18.5000	NA	NA	52.0000
## 135	18.0000	NA	NA	46.0000
## 136	17.5000	NA	NA	44.0000
## 137	18.5000	NA	NA	48.3000
## 138	17.8000	NA	NA	43.2000
## 139	19.1000	NA	NA	47.0000
## 140	17.1000	NA	NA	42.5000
## 141	19.7000	NA	NA	49.5000
## 142	21.5000	NA	NA	48.0000
## 143	19.7000	NA	NA	50.5000
## 144	18.5000	NA	NA	52.0000
## 145	18.0000	NA	NA	46.0000
## 146	17.5000	NA	NA	44.0000
## 147	18.5000	NA	NA	48.3000
## 148	17.8000	NA	NA	43.2000
## 149	19.1000	NA	NA	47.0000
## 150	17.1000	NA	NA	42.5000
## 151	19.7000	NA	NA	49.5000
## 152	21.5000	NA	NA	48.0000
## 153	19.7000	NA	NA	50.5000
## 154	18.5000	NA	NA	52.0000
## 155	18.0000	NA	NA	46.0000
## 156	17.5000	NA	NA	44.0000
## 157	18.5000	NA	NA	48.3000
## 158	17.8000	NA	NA	43.2000
## 159	19.1000	NA	NA	47.0000
## 160	17.1000	NA	NA	42.5000
## 161	19.7000	NA	NA	49.5000
## 162	21.5000	NA	NA	48.0000
## 163	19.7000	NA	NA	50.5000
## 164	18.5000	NA	NA	52.0000
## 165	18.0000	NA	NA	46.0000
## 166	17.5000	NA	NA	44.0000
## 167	18.5000	NA	NA	48.3000
## 168	17.8000	NA	NA	43.2000
## 169	19.1000	NA	NA	47.0000
## 170	17.1000	NA	NA	42.5000
## 171	19.7000	NA	NA	49.5000
## 172	21.5000	NA	NA	48.0000
## 173	19.7000	NA	NA	50.5000
## 174	18.5000	NA	NA	52.0000
## 175	18.0000	NA	NA	46.0000
## 176	17.5000	NA	NA	44.0000
## 177	18.5000	NA	NA	48.3000
## 178	17.8000	NA	NA	43.2000
## 179	19.1000	NA	NA	47.0000
## 180	17.1000	NA	NA	42.5000
## 181	19.7000	NA	NA	49.5000
## 182	21.5000	NA	NA	48.0000
## 183	19.7000	NA	NA	50.5000
## 184	18.5000	NA	NA	52.0000

## 185	18.0000	NA	NA	46.0000
## 186	17.5000	NA	NA	44.0000
## 187	18.5000	NA	NA	48.3000
## 188	17.8000	NA	NA	43.2000
## 189	19.1000	NA	NA	47.0000
## 190	17.1000	NA	NA	42.5000
## 191	19.7000	NA	NA	49.5000
## 192	21.5000	NA	NA	48.0000
## 193	19.7000	NA	NA	50.5000
## 194	18.5000	NA	NA	52.0000
## 195	18.0000	NA	NA	46.0000
## 196	17.5000	NA	NA	44.0000
## 197	18.5000	NA	NA	48.3000
## 198	17.8000	NA	NA	43.2000
## 199	19.1000	NA	NA	47.0000
## 200	17.1000	NA	NA	42.5000
## 201	19.7000	NA	NA	49.5000
## 202	21.5000	NA	NA	48.0000
## 203	19.7000	NA	NA	50.5000
## 204	18.5000	NA	NA	52.0000
## 205	18.0000	NA	NA	46.0000
## 206	17.5000	NA	NA	44.0000
## 207	18.5000	NA	NA	48.3000
## 208	17.8000	NA	NA	43.2000
## 209	19.1000	NA	NA	47.0000
## 210	17.1000	NA	NA	42.5000
## 211	19.7000	NA	NA	49.5000
## 212	21.5000	NA	NA	48.0000
## 213	19.7000	NA	NA	50.5000
## 214	18.5000	NA	NA	52.0000
## 215	18.0000	NA	NA	46.0000
## 216	17.5000	NA	NA	44.0000
## 217	18.5000	NA	NA	48.3000
## 218	17.8000	NA	NA	43.2000
## 219	19.1000	NA	NA	47.0000
## 220	17.1000	NA	NA	42.5000
## 221	19.7000	NA	NA	49.5000
## 222	21.5000	NA	NA	48.0000
## 223	19.7000	NA	NA	50.5000
## 224	18.5000	NA	NA	52.0000
## 225	18.0000	NA	NA	46.0000
## 226	17.5000	NA	NA	44.0000
## 227	17.0000	19.5000	18.5000	38.0000
## 228	18.5000	20.5000	21.0000	41.0000
## 229	19.0000	19.0000	19.5000	40.0000
## 230	19.0000	18.5000	19.0000	41.0000
## 231	20.0000	24.0000	24.0000	49.0000
## 232	19.0000	20.0000	19.0000	40.0000
## 233	19.0000	19.5000	19.5000	44.0000
## 234	18.5000	20.5000	20.0000	43.0000
## 235	12.0000	13.0000	13.5000	25.0000
## 236	20.0000	20.5000	22.0000	45.5000
## 237	15.5000	18.5000	18.5000	42.5000
## 238	18.5000	19.5000	19.5000	47.0000

## 239	16.5000	20.5000	20.5000	43.0000
## 240	19.5000	23.5000	23.5000	49.5000
## 241	20.0000	20.0000	20.0000	45.0000
## 242	21.0000	22.0000	22.0000	46.0000
## 243	16.7000	17.0000	17.0000	39.5000
## 244	18.0000	20.0000	20.0000	45.5000
## 245	20.0000	24.0000	23.5000	52.0000
## 246	17.0000	7.0000	7.0000	38.0000
## 247	6.7500	6.7500	6.7500	14.7500
## 248	7.2500	3.5000	3.7500	17.0000
## 249	8.0000	8.0000	7.7500	17.5000
## 250	18.3000	21.0000	20.5000	46.0000
## 251	5.0000	5.5000	5.5000	11.2500
## 252	8.0000	10.0000	10.0000	19.0000
## 253	5.0000	5.5000	5.5000	11.2500
## 254	8.0000	8.0000	8.0000	11.0000
## 255	5.0000	5.5000	5.5000	11.2500
## 256	7.0000	8.0000	8.0000	16.5000
## 257	6.7500	6.7500	6.7500	14.7500
## 258	7.2500	3.5000	3.7500	17.0000
## 259	8.0000	8.0000	7.7500	17.5000
## 260	18.3000	21.0000	20.5000	46.0000
## 261	5.0000	5.5000	5.5000	11.2500
## 262	8.0000	10.0000	10.0000	19.0000
## 263	5.0000	5.5000	5.5000	11.2500
## 264	8.0000	8.0000	8.0000	11.0000
## 265	5.0000	5.5000	5.5000	11.2500
## 266	7.0000	8.0000	8.0000	16.5000
## 267	6.7500	6.7500	6.7500	14.7500
## 268	7.2500	3.5000	3.7500	17.0000
## 269	8.0000	8.0000	7.7500	17.5000
## 270	18.3000	21.0000	20.5000	46.0000
## 271	5.0000	5.5000	5.5000	11.2500
## 272	8.0000	10.0000	10.0000	19.0000
## 273	5.0000	5.5000	5.5000	11.2500
## 274	8.0000	8.0000	8.0000	11.0000
## 275	5.0000	5.5000	5.5000	11.2500
## 276	7.0000	8.0000	8.0000	16.5000
## 277	21.5000	24.5000	24.0000	47.0000
## 278	18.0000	20.5000	20.5000	39.5000
## 279	24.0000	26.5000	26.5000	43.0000
## 280	20.5000	25.0000	25.0000	44.5000
## 281	16.5000	20.0000	20.0000	39.0000
## 282	19.0000	21.0000	21.0000	45.5000
## 283	19.0000	22.0000	21.5000	45.0000
## 284	22.0000	25.0000	25.0000	45.5000
## 285	17.5000	19.5000	19.0000	37.0000
## 286	22.0000	23.5000	23.5000	45.0000
## 287	21.5000	24.5000	24.0000	47.0000
## 288	18.0000	20.5000	20.5000	39.5000
## 289	24.0000	26.5000	26.5000	43.0000
## 290	20.5000	25.0000	25.0000	44.5000
## 291	16.5000	20.0000	20.0000	39.0000
## 292	19.0000	21.0000	21.0000	45.5000

## 293	19.0000	22.0000	21.5000	45.0000
## 294	22.0000	25.0000	25.0000	45.5000
## 295	17.5000	19.5000	19.0000	37.0000
## 296	22.0000	23.5000	23.5000	45.0000
## 297	6.5000	6.5000	6.7500	14.7500
## 298	7.5000	8.0000	8.0000	18.5000
## 299	7.5000	7.6600	7.6600	16.2500
## 300	8.2500	9.1000	9.0000	18.3300
## 301	7.2500	8.2500	8.2500	17.2500
## 302	7.5000	8.0000	7.7500	18.7500
## 303	7.0000	7.2500	7.3300	16.1000
## 304	7.0000	7.6600	7.8750	17.0000
## 305	8.0000	8.5000	8.5000	19.7500
## 306	7.0000	7.5000	7.5000	15.7500
## 307	18.0000	20.0000	20.0000	43.0000
## 308	18.0000	20.0000	19.5000	42.0000
## 309	17.0000	18.0000	19.0000	39.0000
## 310	17.0000	17.0000	16.0000	39.0000
## 311	19.0000	19.0000	20.0000	42.0000
## 312	19.0000	19.5000	21.0000	43.0000
## 313	17.5000	18.0000	19.5000	40.0000
## 314	16.5000	19.0000	20.0000	37.5000
## 315	17.0000	19.0000	20.5000	44.0000
## 316	18.0000	19.0000	20.0000	23.0000
## 317	7.3750	8.6250	8.5000	18.1250
## 318	6.5000	8.0000	8.0000	16.0000
## 319	7.0000	8.0000	7.7500	17.0000
## 320	6.2500	7.0000	7.0000	14.7500
## 321	87.8750	6.5000	7.7500	18.2500
## 322	6.7500	6.5000	6.2500	15.2500
## 323	7.0000	7.0000	7.2500	15.5000
## 324	7.5000	8.0000	8.0000	16.2500
## 325	7.0000	7.0000	7.0000	16.2500
## 326	7.5000	8.0000	8.0000	19.2500
## 327	17.0000	20.0000	19.0000	39.5000
## 328	19.5000	20.5000	20.5000	42.0000
## 329	21.0000	23.5000	21.0000	50.7500
## 330	19.7500	21.0000	22.2500	44.0000
## 331	17.0000	20.0000	19.0000	41.0000
## 332	18.0000	21.0000	20.0000	44.0000
## 333	18.0000	19.5000	19.5000	47.5000
## 334	17.8000	17.8000	17.8000	43.0000
## 335	18.0000	19.7000	20.3000	44.0000
## 336	19.5000	20.0000	22.0000	47.0000
## 337	19.5000	21.5000	21.5000	45.0000
## 338	18.0000	18.5000	18.5000	41.0000
## 339	18.0000	16.0000	16.0000	34.0000
## 340	20.5000	19.5000	19.5000	41.0000
## 341	19.0000	19.0000	19.0000	39.0000
## 342	19.0000	22.0000	22.0000	43.0000
## 343	17.0000	18.0000	19.0000	37.5000
## 344	19.5000	21.0000	21.0000	42.0000
## 345	17.0000	17.0000	17.0000	36.0000
## 346	17.0000	17.0000	16.0000	37.0000

## 347	7.5000	10.0000	10.0000	19.2500
## 348	6.7500	7.5000	7.7500	16.0000
## 349	7.9000	7.8000	7.9000	18.3000
## 350	7.4000	7.9000	7.8000	15.8000
## 351	7.7000	9.0000	8.8000	17.3000
## 352	7.5000	8.2500	8.5000	17.5000
## 353	7.2500	8.2500	8.7500	17.7500
## 354	7.2500	8.2500	8.2500	16.5000
## 355	8.1000	10.0000	10.0000	18.1000
## 356	7.2500	8.0000	8.0000	17.0000
## 357	18.3000	21.2000	20.5000	47.3000
## 358	19.8000	20.3000	20.4000	42.0000
## 359	20.1000	22.0000	22.0000	44.5000
## 360	15.9000	17.6000	17.7000	39.6000
## 361	17.0000	19.7000	19.6000	42.5000
## 362	17.9000	19.8000	20.0000	43.7000
## 363	17.0000	20.0000	20.1000	44.0000
## 364	19.0000	21.5000	21.0000	45.4000
## 365	19.8000	22.6000	22.6000	49.7000
## 366	19.0000	22.0000	21.0000	40.0000
## 367	19.0000	22.2000	21.6000	44.5000
## 368	19.7000	21.6000	21.6000	47.6000
## 369	16.9000	20.0000	19.0000	35.8000
## 370	19.0000	21.1000	21.1000	41.0000
## 371	17.2000	20.2000	20.4000	42.0000
## 372	18.4000	20.3000	20.3000	45.2000
## 373	15.0000	18.0000	18.0000	39.3000
## 374	18.0000	22.0000	22.0000	40.0000
## 375	21.4000	22.0000	22.2000	46.0000
## 376	16.5000	20.3000	20.3000	42.0000
## 377	7.0000	7.5000	7.5000	17.0000
## 378	6.3300	6.0000	6.0000	15.2500
## 379	7.0000	6.5000	6.7500	17.0000
## 380	7.0000	6.0000	6.0000	17.0000
## 381	7.7500	8.5000	8.7500	18.5000
## 382	8.5000	8.7500	8.7500	18.0000
## 383	8.7500	9.0000	9.0000	18.5000
## 384	6.2500	7.0000	7.2500	15.0000
## 385	6.5000	6.0000	6.0000	15.0000
## 386	7.2500	7.7500	7.7500	18.0000
## 387	19.5000	22.0000	22.0000	39.0000
## 388	20.0000	20.0000	20.3000	41.5000
## 389	19.5000	23.0000	22.0000	43.0000
## 390	19.5000	22.7000	22.2000	45.8000
## 391	20.4000	22.2000	21.6000	46.5000
## 392	19.7000	23.0000	23.0000	44.5000
## 393	7.0000	9.0000	9.0000	18.0000
## 394	7.0000	7.5000	7.5000	16.0000
## 395	7.0000	7.0000	6.7500	16.0000
## 396	19.7000	19.0000	19.2000	41.5000
## 397	19.0000	24.0000	24.0000	49.0000
## 398	19.5000	20.5000	20.5000	46.5000
## 399	21.0000	22.5000	22.5000	47.5000
## 400	17.0000	21.0000	21.0000	43.0000

## 401	21.0000	24.0000	24.0000	45.0000
## 402	17.5000	21.5000	21.0000	41.0000
## 403	20.0000	20.0000	20.0000	NA
## 404	18.0000	18.0000	18.0000	43.0000
## 405	19.0000	22.0000	22.0000	46.0000
## 406	17.0000	19.0000	19.0000	40.0000
## 407	17.5000	21.6000	22.0000	44.9000
## 408	17.2000	20.0000	19.8000	41.7000
## 409	17.0000	16.7000	17.2000	39.1000
## 410	17.7000	20.1000	19.8000	42.7000
## 411	19.4000	23.3000	23.1000	45.3000
## 412	15.2000	19.7000	19.6000	40.6000
## 413	16.5000	18.3000	18.1000	41.6000
## 414	16.7000	19.2000	18.7000	44.3000
## 415	175.2000	21.1000	21.6000	41.9000
## 416	17.7000	18.1000	17.6000	43.2000
## 417	20.5000	22.2000	22.0000	44.5000
## 418	19.0000	20.0000	19.0000	45.2500
## 419	19.5000	19.6850	20.0000	40.6400
## 420	19.0500	19.0500	18.7325	41.9100
## 421	20.3200	22.2250	22.5425	44.1325
## 422	16.8275	19.0500	19.0500	40.0050
## 423	15.2400	17.1450	17.4625	33.0200
## 424	19.6850	22.8600	22.8600	42.5450
## 425	17.7800	17.7800	18.4150	38.7350
## 426	17.1450	19.0500	18.4150	38.7350
## 427	17.1450	19.0500	18.4150	38.7350
## 428	17.1450	19.0500	18.4150	38.7350
##	hand.elbow.right	elbow.arpit.left	elbow.arpit.right	arm.reach.left
## 1	35.000	22.7000	22.300	188.2000
## 2	46.100	26.0000	26.000	223.0000
## 3	NA	33.0000	NA	183.0000
## 4	39.000	29.0000	29.000	202.0000
## 5	43.000	28.0000	28.000	231.0000
## 6	38.200	32.0000	31.000	206.0000
## 7	36.000	25.0000	25.000	150.1000
## 8	36.000	24.5000	24.500	192.0000
## 9	NA	20.0000	NA	38.0000
## 10	NA	27.7000	NA	201.1000
## 11	35.000	22.7000	22.300	188.2000
## 12	46.100	26.0000	26.000	223.0000
## 13	NA	33.0000	NA	183.0000
## 14	39.000	29.0000	29.000	202.0000
## 15	43.000	28.0000	28.000	231.0000
## 16	38.200	32.0000	31.000	206.0000
## 17	36.000	25.0000	25.000	150.1000
## 18	36.000	24.5000	24.500	192.0000
## 19	NA	20.0000	NA	38.0000
## 20	NA	27.7000	NA	201.1000
## 21	40.000	30.0000	30.000	53.0000
## 22	45.700	57.6000	56.400	70.5000
## 23	38.000	21.7000	21.300	56.0000
## 24	44.300	28.0000	28.000	64.0000
## 25	43.200	23.5000	23.000	67.0000

## 26	43.000	29.6000	29.700	60.0000
## 27	47.300	33.5000	31.300	66.1000
## 28	43.900	27.0000	29.000	65.1000
## 29	44.600	24.0000	24.000	65.0000
## 30	41.000	23.5000	25.500	56.0000
## 31	19.000	9.7500	9.750	90.0000
## 32	11.000	7.2500	7.000	54.0000
## 33	12.750	8.5000	8.500	57.5000
## 34	19.250	12.2500	12.750	87.2500
## 35	16.250	11.5000	12.000	80.5000
## 36	12.125	9.0000	8.750	56.6250
## 37	16.000	11.1875	11.250	73.7500
## 38	17.000	12.1250	12.500	75.7500
## 39	16.750	11.5000	11.750	79.0000
## 40	19.250	12.5000	12.000	88.5000
## 41	17.125	11.5000	11.750	79.0000
## 42	19.000	9.7500	9.750	90.0000
## 43	11.000	7.2500	7.000	54.0000
## 44	12.750	8.5000	8.500	57.5000
## 45	19.250	12.2500	12.750	87.2500
## 46	16.250	11.5000	12.000	80.5000
## 47	12.125	9.0000	8.750	56.6250
## 48	16.000	11.1875	11.250	73.7500
## 49	17.000	12.1250	12.500	75.7500
## 50	16.750	11.5000	11.750	79.0000
## 51	19.250	12.5000	12.000	88.5000
## 52	17.125	11.5000	11.750	79.0000
## 53	19.000	9.7500	9.750	90.0000
## 54	11.000	7.2500	7.000	54.0000
## 55	12.750	8.5000	8.500	57.5000
## 56	19.250	12.2500	12.750	87.2500
## 57	16.250	11.5000	12.000	80.5000
## 58	12.125	9.0000	8.750	56.6250
## 59	16.000	11.1875	11.250	73.7500
## 60	17.000	12.1250	12.500	75.7500
## 61	16.750	11.5000	11.750	79.0000
## 62	19.250	12.5000	12.000	88.5000
## 63	17.125	11.5000	11.750	79.0000
## 64	19.000	9.7500	9.750	90.0000
## 65	11.000	7.2500	7.000	54.0000
## 66	12.750	8.5000	8.500	57.5000
## 67	19.250	12.2500	12.750	87.2500
## 68	16.250	11.5000	12.000	80.5000
## 69	12.125	9.0000	8.750	56.6250
## 70	16.000	11.1875	11.250	73.7500
## 71	17.000	12.1250	12.500	75.7500
## 72	16.750	11.5000	11.750	79.0000
## 73	19.250	12.5000	12.000	88.5000
## 74	17.125	11.5000	11.750	79.0000
## 75	46.000	30.0000	31.000	225.5000
## 76	46.228	29.0000	30.000	152.4000
## 77	44.700	28.0000	28.000	147.4000
## 78	41.000	26.0000	27.000	135.0000
## 79	42.000	26.0000	27.000	138.0000

## 80	47.000	30.0000	31.000	156.0000
## 81	47.000	29.0000	30.000	154.0000
## 82	41.000	26.0000	27.000	136.0000
## 83	47.000	30.0000	31.000	156.0000
## 84	48.000	30.0000	31.000	157.0000
## 85	40.500	25.5000	25.500	226.0000
## 86	40.500	25.5000	25.500	205.5000
## 87	39.500	19.5000	19.500	199.5000
## 88	30.000	23.0000	23.000	234.0000
## 89	23.500	16.0000	16.000	224.0000
## 90	41.000	24.0000	24.000	208.0000
## 91	45.000	21.0000	21.000	210.0000
## 92	44.000	29.0000	29.000	223.5000
## 93	47.000	71.0000	71.000	243.0000
## 94	43.500	30.0000	28.000	120.0000
## 95	38.500	23.0000	23.000	77.5000
## 96	45.000	30.0000	30.000	237.5000
## 97	11.400	12.0000	12.000	86.2500
## 98	NA	NA	NA	NA
## 99	NA	NA	NA	NA
## 100	NA	NA	NA	NA
## 101	NA	NA	NA	NA
## 102	NA	NA	NA	NA
## 103	NA	NA	NA	NA
## 104	NA	NA	NA	NA
## 105	NA	NA	NA	NA
## 106	NA	NA	NA	NA
## 107	45.770	67.3100	69.850	72.3900
## 108	40.640	26.6700	27.305	62.2300
## 109	46.350	26.0350	25.400	72.3900
## 110	NA	NA	NA	NA
## 111	NA	NA	NA	NA
## 112	NA	NA	NA	NA
## 113	NA	NA	NA	NA
## 114	NA	NA	NA	NA
## 115	NA	NA	NA	NA
## 116	NA	NA	NA	NA
## 117	45.085	NA	33.020	NA
## 118	38.100	NA	26.670	NA
## 119	37.465	NA	22.860	NA
## 120	34.290	NA	17.145	NA
## 121	31.750	NA	22.860	NA
## 122	30.480	NA	22.860	NA
## 123	NA	NA	NA	218.0000
## 124	NA	NA	NA	230.0000
## 125	NA	20.3200	NA	177.8000
## 126	44.000	25.5000	26.500	165.0000
## 127	47.600	28.6000	29.200	66.7000
## 128	43.200	24.8000	22.900	61.6000
## 129	47.000	26.7000	26.000	62.9000
## 130	42.500	22.9000	22.900	61.0000
## 131	48.300	25.4000	25.400	67.9000
## 132	48.000	29.0000	29.000	NA
## 133	50.500	32.7000	32.700	NA

## 134	52.500	32.5000	32.500	66.0000
## 135	46.500	26.0000	26.000	59.0000
## 136	44.000	29.0000	29.000	64.5000
## 137	47.600	28.6000	29.200	66.7000
## 138	43.200	24.8000	22.900	61.6000
## 139	47.000	26.7000	26.000	62.9000
## 140	42.500	22.9000	22.900	61.0000
## 141	48.300	25.4000	25.400	67.9000
## 142	48.000	29.0000	29.000	NA
## 143	50.500	32.7000	32.700	NA
## 144	52.500	32.5000	32.500	66.0000
## 145	46.500	26.0000	26.000	59.0000
## 146	44.000	29.0000	29.000	64.5000
## 147	47.600	28.6000	29.200	66.7000
## 148	43.200	24.8000	22.900	61.6000
## 149	47.000	26.7000	26.000	62.9000
## 150	42.500	22.9000	22.900	61.0000
## 151	48.300	25.4000	25.400	67.9000
## 152	48.000	29.0000	29.000	NA
## 153	50.500	32.7000	32.700	NA
## 154	52.500	32.5000	32.500	66.0000
## 155	46.500	26.0000	26.000	59.0000
## 156	44.000	29.0000	29.000	64.5000
## 157	47.600	28.6000	29.200	66.7000
## 158	43.200	24.8000	22.900	61.6000
## 159	47.000	26.7000	26.000	62.9000
## 160	42.500	22.9000	22.900	61.0000
## 161	48.300	25.4000	25.400	67.9000
## 162	48.000	29.0000	29.000	NA
## 163	50.500	32.7000	32.700	NA
## 164	52.500	32.5000	32.500	66.0000
## 165	46.500	26.0000	26.000	59.0000
## 166	44.000	29.0000	29.000	64.5000
## 167	47.600	28.6000	29.200	66.7000
## 168	43.200	24.8000	22.900	61.6000
## 169	47.000	26.7000	26.000	62.9000
## 170	42.500	22.9000	22.900	61.0000
## 171	48.300	25.4000	25.400	67.9000
## 172	48.000	29.0000	29.000	NA
## 173	50.500	32.7000	32.700	NA
## 174	52.500	32.5000	32.500	66.0000
## 175	46.500	26.0000	26.000	59.0000
## 176	44.000	29.0000	29.000	64.5000
## 177	47.600	28.6000	29.200	66.7000
## 178	43.200	24.8000	22.900	61.6000
## 179	47.000	26.7000	26.000	62.9000
## 180	42.500	22.9000	22.900	61.0000
## 181	48.300	25.4000	25.400	67.9000
## 182	48.000	29.0000	29.000	NA
## 183	50.500	32.7000	32.700	NA
## 184	52.500	32.5000	32.500	66.0000
## 185	46.500	26.0000	26.000	59.0000
## 186	44.000	29.0000	29.000	64.5000
## 187	47.600	28.6000	29.200	66.7000

## 188	43.200	24.8000	22.900	61.6000
## 189	47.000	26.7000	26.000	62.9000
## 190	42.500	22.9000	22.900	61.0000
## 191	48.300	25.4000	25.400	67.9000
## 192	48.000	29.0000	29.000	NA
## 193	50.500	32.7000	32.700	NA
## 194	52.500	32.5000	32.500	66.0000
## 195	46.500	26.0000	26.000	59.0000
## 196	44.000	29.0000	29.000	64.5000
## 197	47.600	28.6000	29.200	66.7000
## 198	43.200	24.8000	22.900	61.6000
## 199	47.000	26.7000	26.000	62.9000
## 200	42.500	22.9000	22.900	61.0000
## 201	48.300	25.4000	25.400	67.9000
## 202	48.000	29.0000	29.000	NA
## 203	50.500	32.7000	32.700	NA
## 204	52.500	32.5000	32.500	66.0000
## 205	46.500	26.0000	26.000	59.0000
## 206	44.000	29.0000	29.000	64.5000
## 207	47.600	28.6000	29.200	66.7000
## 208	43.200	24.8000	22.900	61.6000
## 209	47.000	26.7000	26.000	62.9000
## 210	42.500	22.9000	22.900	61.0000
## 211	48.300	25.4000	25.400	67.9000
## 212	48.000	29.0000	29.000	NA
## 213	50.500	32.7000	32.700	NA
## 214	52.500	32.5000	32.500	66.0000
## 215	46.500	26.0000	26.000	59.0000
## 216	44.000	29.0000	29.000	64.5000
## 217	47.600	28.6000	29.200	66.7000
## 218	43.200	24.8000	22.900	61.6000
## 219	47.000	26.7000	26.000	62.9000
## 220	42.500	22.9000	22.900	61.0000
## 221	48.300	25.4000	25.400	67.9000
## 222	48.000	29.0000	29.000	NA
## 223	50.500	32.7000	32.700	NA
## 224	52.500	32.5000	32.500	66.0000
## 225	46.500	26.0000	26.000	59.0000
## 226	44.000	29.0000	29.000	64.5000
## 227	39.000	27.0000	26.000	209.0000
## 228	40.000	22.0000	22.500	214.0000
## 229	40.500	23.5000	24.000	217.0000
## 230	42.000	26.0000	25.000	219.5000
## 231	49.500	29.0000	28.000	234.0000
## 232	40.500	32.5000	32.000	205.0000
## 233	43.500	22.0000	23.500	222.5000
## 234	44.000	21.0000	21.000	227.5000
## 235	25.500	10.0000	10.000	108.0000
## 236	45.000	24.0000	23.000	221.5000
## 237	42.500	23.5000	23.500	198.1200
## 238	47.500	24.5000	24.500	213.9950
## 239	43.000	25.5000	25.500	201.2950
## 240	49.500	23.5000	23.500	230.5050
## 241	45.000	31.0000	31.000	212.0000

## 242	46.000	31.0000	31.000	218.0000
## 243	39.800	21.1000	21.000	194.7000
## 244	45.500	27.0000	27.000	220.3450
## 245	52.000	27.0000	27.000	228.0000
## 246	38.000	18.0000	18.000	207.0000
## 247	15.000	6.5000	6.500	79.2500
## 248	17.000	9.0000	9.000	56.0000
## 249	17.500	9.0000	9.500	59.0000
## 250	46.000	35.0000	34.000	146.5000
## 251	11.250	6.0000	6.000	57.0000
## 252	19.000	12.0000	12.000	90.0000
## 253	11.250	6.0000	6.000	57.0000
## 254	11.500	10.0000	10.500	72.0000
## 255	11.250	6.0000	6.000	57.0000
## 256	17.000	11.0000	12.000	26.0000
## 257	15.000	6.5000	6.500	79.2500
## 258	17.000	9.0000	9.000	56.0000
## 259	17.500	9.0000	9.500	59.0000
## 260	46.000	35.0000	34.000	146.5000
## 261	11.250	6.0000	6.000	57.0000
## 262	19.000	12.0000	12.000	90.0000
## 263	11.250	6.0000	6.000	57.0000
## 264	11.500	10.0000	10.500	72.0000
## 265	11.250	6.0000	6.000	57.0000
## 266	17.000	11.0000	12.000	26.0000
## 267	15.000	6.5000	6.500	79.2500
## 268	17.000	9.0000	9.000	56.0000
## 269	17.500	9.0000	9.500	59.0000
## 270	46.000	35.0000	34.000	146.5000
## 271	11.250	6.0000	6.000	57.0000
## 272	19.000	12.0000	12.000	90.0000
## 273	11.250	6.0000	6.000	57.0000
## 274	11.500	10.0000	10.500	72.0000
## 275	11.250	6.0000	6.000	57.0000
## 276	17.000	11.0000	12.000	26.0000
## 277	47.000	28.0000	28.000	233.0000
## 278	39.500	28.0000	28.000	206.0000
## 279	43.000	28.0000	28.000	225.0000
## 280	44.500	30.5000	30.500	233.0000
## 281	39.000	24.0000	24.000	201.0000
## 282	45.500	25.5000	25.500	239.0000
## 283	45.000	24.0000	24.000	215.0000
## 284	45.500	28.5000	28.500	232.0000
## 285	37.000	25.0000	25.000	198.0000
## 286	45.000	27.0000	26.500	232.5000
## 287	47.000	28.0000	28.000	233.0000
## 288	39.500	28.0000	28.000	206.0000
## 289	43.000	28.0000	28.000	225.0000
## 290	44.500	30.5000	30.500	233.0000
## 291	39.000	24.0000	24.000	201.0000
## 292	45.500	25.5000	25.500	239.0000
## 293	45.000	24.0000	24.000	215.0000
## 294	45.500	28.5000	28.500	232.0000
## 295	37.000	25.0000	25.000	198.0000

## 296	45.000	27.0000	26.500	232.5000
## 297	14.750	9.5000	9.750	76.0000
## 298	18.500	13.3300	13.000	88.8750
## 299	16.250	9.8750	9.875	75.6600
## 300	18.100	13.2500	13.330	87.7500
## 301	17.500	13.0000	12.500	80.0000
## 302	19.000	13.5000	13.500	92.2500
## 303	16.000	9.2500	9.000	80.2500
## 304	16.900	11.2500	11.250	81.9000
## 305	20.500	15.0000	15.000	94.5000
## 306	15.750	10.0000	9.500	83.0000
## 307	43.000	22.0000	22.000	217.0000
## 308	42.000	23.0000	22.000	207.5000
## 309	39.000	28.0000	29.000	197.0000
## 310	40.000	20.0000	20.000	194.0000
## 311	42.000	25.0000	23.000	204.0000
## 312	44.500	21.0000	22.000	215.0000
## 313	41.000	21.0000	21.000	195.0000
## 314	38.000	19.0000	20.000	182.0000
## 315	42.000	23.0000	20.000	198.0000
## 316	24.000	20.0000	21.000	201.0000
## 317	18.000	13.0000	13.000	88.5000
## 318	15.500	10.0000	9.500	86.0000
## 319	17.000	11.0000	11.000	89.0000
## 320	14.750	8.0000	8.000	77.3400
## 321	17.750	10.0000	9.500	86.5000
## 322	15.250	9.5000	10.000	76.5000
## 323	16.250	8.7500	7.500	76.0000
## 324	16.500	10.5000	11.000	79.0000
## 325	16.250	11.0000	11.000	80.0000
## 326	19.500	13.5000	13.500	93.5000
## 327	39.500	24.0000	23.000	200.0000
## 328	41.500	24.5000	25.500	211.0000
## 329	51.500	35.5000	37.500	245.0000
## 330	49.500	27.0000	30.500	234.5000
## 331	40.000	21.0000	22.000	198.0000
## 332	45.000	25.5000	26.000	234.0000
## 333	44.500	30.5000	30.500	84.0000
## 334	43.000	29.0000	28.000	204.0000
## 335	43.000	30.5000	31.750	218.4500
## 336	48.000	23.5000	22.000	231.1400
## 337	45.000	22.0000	23.000	205.0000
## 338	41.000	23.0000	23.000	195.0000
## 339	33.000	20.0000	21.000	172.0000
## 340	40.000	20.0000	21.000	196.0000
## 341	40.000	21.0000	20.000	189.0000
## 342	43.000	20.0000	20.000	212.5000
## 343	37.000	21.0000	20.000	178.0000
## 344	41.000	20.5000	20.000	196.0000
## 345	35.000	19.0000	19.000	184.0000
## 346	37.000	20.0000	20.000	181.0000
## 347	19.500	8.7500	8.500	92.0000
## 348	16.000	10.0000	10.000	78.2800
## 349	17.100	11.0000	12.000	90.3000

## 350	16.500	10.8000	9.500	87.0000
## 351	18.900	9.3000	13.300	90.1000
## 352	17.500	10.5000	10.750	79.0000
## 353	17.500	14.0000	14.000	88.2500
## 354	16.500	8.0000	8.000	82.0000
## 355	18.100	8.8000	12.300	93.3000
## 356	17.000	8.7500	8.750	85.0000
## 357	47.000	31.5000	31.500	221.0000
## 358	41.700	30.5000	30.500	226.0000
## 359	44.700	34.0000	34.000	227.0000
## 360	39.600	28.0000	27.600	194.7000
## 361	43.000	29.0000	29.200	209.5000
## 362	44.000	30.0000	30.000	200.0000
## 363	44.400	30.0000	30.000	216.5000
## 364	45.500	31.5000	32.000	212.5000
## 365	51.500	34.0000	35.500	238.0000
## 366	40.000	21.5000	21.000	220.0000
## 367	44.500	25.9000	25.400	208.3000
## 368	47.600	26.7000	26.700	232.4000
## 369	36.000	26.0000	26.000	198.1000
## 370	42.000	25.4000	25.400	212.0000
## 371	41.000	24.0000	24.300	207.0000
## 372	45.700	24.1000	25.400	226.1000
## 373	39.000	21.0000	21.200	200.1000
## 374	41.000	25.0000	24.000	213.0000
## 375	47.100	19.6000	21.000	212.0000
## 376	41.900	35.5000	35.600	213.4000
## 377	17.000	9.2500	9.250	81.0000
## 378	15.250	9.3300	9.330	77.5000
## 379	17.250	11.0000	11.000	83.0000
## 380	16.500	10.0000	10.000	88.0000
## 381	18.250	14.2500	14.500	78.5000
## 382	18.250	15.0000	15.000	79.0000
## 383	18.750	16.0000	16.000	82.0000
## 384	15.000	8.5000	8.750	76.0000
## 385	16.000	13.0000	14.000	61.0000
## 386	18.000	9.5000	9.500	84.0000
## 387	38.000	39.0000	38.000	211.0000
## 388	42.000	24.5000	25.000	218.0000
## 389	43.000	22.5000	23.000	220.5000
## 390	45.000	31.0000	31.000	238.5000
## 391	46.500	26.0000	27.500	229.0000
## 392	44.000	26.0000	26.000	226.0000
## 393	18.000	9.5000	9.000	82.5000
## 394	16.000	7.5000	7.500	77.0000
## 395	16.500	10.0000	9.500	73.5000
## 396	42.000	27.0000	25.000	221.0000
## 397	49.000	23.0000	23.000	244.0000
## 398	46.500	22.0000	22.000	240.0000
## 399	47.500	25.0000	25.000	236.0000
## 400	43.000	21.0000	21.000	216.0000
## 401	45.000	20.5000	20.500	223.5000
## 402	40.500	21.5000	21.000	207.0000
## 403	NA	29.0000	29.000	236.0000

## 404	43.000	20.5000	20.500	206.0000
## 405	46.000	25.5000	25.500	228.5000
## 406	40.000	20.0000	20.000	210.0000
## 407	44.700	28.4000	27.900	208.2000
## 408	41.900	30.5000	30.200	205.5000
## 409	39.800	23.3000	23.800	198.1000
## 410	42.900	26.7000	26.400	198.6000
## 411	44.900	36.8000	36.300	222.1000
## 412	40.900	29.6000	28.900	203.7000
## 413	41.800	29.7000	30.200	207.3000
## 414	44.100	31.4000	33.200	211.1000
## 415	41.900	32.2000	31.900	215.9000
## 416	43.300	29.9000	30.200	209.8000
## 417	45.000	22.5000	23.000	232.0000
## 418	47.000	27.0000	26.500	217.1700
## 419	41.000	22.0000	23.250	200.0250
## 420	44.450	19.0500	19.685	203.5175
## 421	45.085	26.3525	26.035	229.8700
## 422	39.370	22.8600	22.860	208.2800
## 423	33.020	17.7800	17.780	167.6400
## 424	42.545	27.9400	29.210	226.0600
## 425	38.735	27.9400	29.210	218.4400
## 426	38.735	28.5750	27.940	213.9950
## 427	38.735	28.5750	27.940	213.9950
## 428	38.735	28.5750	27.940	213.9950
##	arm.reach.right	arm.span.NA	foot.length.left	foot.length.right
## 1	188.2000	148.200	21.4000	21.9000
## 2	223.0000	167.000	23.0000	23.0000
## 3	NA	157.000	20.0000	NA
## 4	202.0000	155.000	23.0000	23.0000
## 5	231.0000	183.000	25.0000	25.0000
## 6	206.0000	167.500	25.4000	25.4000
## 7	150.1000	150.100	22.2000	21.7000
## 8	192.0000	151.000	22.0000	22.0000
## 9	NA	154.000	26.0000	NA
## 10	NA	154.300	23.3000	NA
## 11	188.2000	148.200	21.4000	21.9000
## 12	223.0000	167.000	23.0000	23.0000
## 13	NA	157.000	20.0000	NA
## 14	202.0000	155.000	23.0000	23.0000
## 15	231.0000	183.000	25.0000	25.0000
## 16	206.0000	167.500	25.4000	25.4000
## 17	150.1000	150.100	22.2000	21.7000
## 18	192.0000	151.000	22.0000	22.0000
## 19	NA	154.000	26.0000	NA
## 20	NA	154.300	23.3000	NA
## 21	52.0000	141.700	22.0000	21.6000
## 22	71.5000	176.000	25.0000	24.8000
## 23	59.0000	159.600	23.0000	22.5000
## 24	65.8000	165.000	23.6000	23.7000
## 25	65.0000	151.900	21.9000	22.7000
## 26	60.0000	161.100	23.6000	24.4000
## 27	67.3000	182.800	26.2000	26.2000
## 28	64.8000	165.700	23.8000	23.5000

## 29	65.0000	168.600	21.0000	22.5000
## 30	56.4000	156.000	22.3000	22.0000
## 31	90.0000	72.500	11.2500	11.2500
## 32	54.5000	43.125	6.2500	6.5000
## 33	57.0000	46.250	7.2500	7.5000
## 34	87.5000	71.750	10.5000	10.5000
## 35	78.7500	63.250	8.8750	8.6250
## 36	56.0000	45.625	7.5000	7.3750
## 37	76.5000	60.875	9.3750	9.5000
## 38	74.6250	65.875	9.7500	9.8750
## 39	80.5000	62.000	9.0000	8.7500
## 40	88.0000	72.125	10.2500	10.2500
## 41	79.3750	63.250	9.5000	9.2500
## 42	90.0000	72.500	11.2500	11.2500
## 43	54.5000	43.125	6.2500	6.5000
## 44	57.0000	46.250	7.2500	7.5000
## 45	87.5000	71.750	10.5000	10.5000
## 46	78.7500	63.250	8.8750	8.6250
## 47	56.0000	45.625	7.5000	7.3750
## 48	76.5000	60.875	9.3750	9.5000
## 49	74.6250	65.875	9.7500	9.8750
## 50	80.5000	62.000	9.0000	8.7500
## 51	88.0000	72.125	10.2500	10.2500
## 52	79.3750	63.250	9.5000	9.2500
## 53	90.0000	72.500	11.2500	11.2500
## 54	54.5000	43.125	6.2500	6.5000
## 55	57.0000	46.250	7.2500	7.5000
## 56	87.5000	71.750	10.5000	10.5000
## 57	78.7500	63.250	8.8750	8.6250
## 58	56.0000	45.625	7.5000	7.3750
## 59	76.5000	60.875	9.3750	9.5000
## 60	74.6250	65.875	9.7500	9.8750
## 61	80.5000	62.000	9.0000	8.7500
## 62	88.0000	72.125	10.2500	10.2500
## 63	79.3750	63.250	9.5000	9.2500
## 64	90.0000	72.500	11.2500	11.2500
## 65	54.5000	43.125	6.2500	6.5000
## 66	57.0000	46.250	7.2500	7.5000
## 67	87.5000	71.750	10.5000	10.5000
## 68	78.7500	63.250	8.8750	8.6250
## 69	56.0000	45.625	7.5000	7.3750
## 70	76.5000	60.875	9.3750	9.5000
## 71	74.6250	65.875	9.7500	9.8750
## 72	80.5000	62.000	9.0000	8.7500
## 73	88.0000	72.125	10.2500	10.2500
## 74	79.3750	63.250	9.5000	9.2500
## 75	226.0000	176.000	26.5000	26.5000
## 76	152.6000	218.440	25.4000	25.4000
## 77	147.2000	211.000	24.0000	24.0000
## 78	135.0000	193.000	22.5000	22.5000
## 79	139.0000	198.500	23.0000	23.0000
## 80	156.0000	224.000	26.0000	26.0000
## 81	155.0000	221.000	26.0000	26.0000
## 82	136.0000	195.000	23.0000	23.0000

## 83	156.0000	223.000	26.0000	26.0000
## 84	157.0000	224.000	26.0000	26.0000
## 85	223.5000	183.000	28.0000	28.0000
## 86	206.5000	164.000	23.0000	23.0000
## 87	199.5000	160.000	23.0000	23.0000
## 88	234.0000	65.000	20.0000	20.0000
## 89	222.0000	171.000	27.0000	26.5000
## 90	208.0000	166.000	25.5000	25.0000
## 91	212.0000	174.000	24.0000	24.0000
## 92	223.5000	180.500	26.0000	25.5000
## 93	243.0000	162.000	29.0000	29.0000
## 94	121.0000	75.000	25.0000	25.0000
## 95	78.0000	61.500	13.5000	13.5000
## 96	237.5000	192.000	28.5000	28.5000
## 97	86.2500	70.750	10.0000	9.7500
## 98	NA	62.000	NA	NA
## 99	NA	41.000	NA	NA
## 100	NA	31.500	NA	NA
## 101	NA	63.000	NA	NA
## 102	NA	66.000	NA	NA
## 103	NA	65.500	NA	NA
## 104	NA	63.750	NA	NA
## 105	NA	64.000	NA	NA
## 106	NA	73.000	NA	NA
## 107	71.1200	180.975	24.1300	24.7650
## 108	60.9600	162.560	22.8600	22.8600
## 109	73.6600	187.960	27.9400	27.3050
## 110	NA	NA	NA	NA
## 111	NA	NA	NA	NA
## 112	NA	NA	NA	NA
## 113	NA	NA	NA	NA
## 114	NA	NA	NA	NA
## 115	NA	NA	NA	NA
## 116	NA	NA	NA	NA
## 117	238.7600	196.850	NA	29.2100
## 118	205.7400	158.750	NA	22.8600
## 119	186.0550	150.495	NA	22.8600
## 120	184.1500	147.320	NA	21.5900
## 121	170.1800	134.620	NA	20.3200
## 122	163.1950	133.350	NA	20.3200
## 123	NA	171.000	28.0000	NA
## 124	NA	172.000	29.0000	NA
## 125	NA	NA	21.5900	NA
## 126	162.0000	179.000	26.5000	27.0000
## 127	66.4000	167.600	24.8000	24.8000
## 128	61.6000	147.500	25.4000	25.4000
## 129	63.5000	163.500	30.5000	30.5000
## 130	61.6000	142.300	24.1000	24.4000
## 131	66.0000	165.000	27.3000	29.2000
## 132	NA	173.000	30.0000	30.0000
## 133	NA	175.500	27.3000	26.7000
## 134	66.0000	171.000	26.0000	26.0000
## 135	59.5000	158.000	24.5000	24.5000
## 136	64.0000	168.000	25.5000	25.5000

## 137	66.4000	167.600	24.8000	24.8000
## 138	61.6000	147.500	25.4000	25.4000
## 139	63.5000	163.500	30.5000	30.5000
## 140	61.6000	142.300	24.1000	24.4000
## 141	66.0000	165.000	27.3000	29.2000
## 142	NA	173.000	30.0000	30.0000
## 143	NA	175.500	27.3000	26.7000
## 144	66.0000	171.000	26.0000	26.0000
## 145	59.5000	158.000	24.5000	24.5000
## 146	64.0000	168.000	25.5000	25.5000
## 147	66.4000	167.600	24.8000	24.8000
## 148	61.6000	147.500	25.4000	25.4000
## 149	63.5000	163.500	30.5000	30.5000
## 150	61.6000	142.300	24.1000	24.4000
## 151	66.0000	165.000	27.3000	29.2000
## 152	NA	173.000	30.0000	30.0000
## 153	NA	175.500	27.3000	26.7000
## 154	66.0000	171.000	26.0000	26.0000
## 155	59.5000	158.000	24.5000	24.5000
## 156	64.0000	168.000	25.5000	25.5000
## 157	66.4000	167.600	24.8000	24.8000
## 158	61.6000	147.500	25.4000	25.4000
## 159	63.5000	163.500	30.5000	30.5000
## 160	61.6000	142.300	24.1000	24.4000
## 161	66.0000	165.000	27.3000	29.2000
## 162	NA	173.000	30.0000	30.0000
## 163	NA	175.500	27.3000	26.7000
## 164	66.0000	171.000	26.0000	26.0000
## 165	59.5000	158.000	24.5000	24.5000
## 166	64.0000	168.000	25.5000	25.5000
## 167	66.4000	167.600	24.8000	24.8000
## 168	61.6000	147.500	25.4000	25.4000
## 169	63.5000	163.500	30.5000	30.5000
## 170	61.6000	142.300	24.1000	24.4000
## 171	66.0000	165.000	27.3000	29.2000
## 172	NA	173.000	30.0000	30.0000
## 173	NA	175.500	27.3000	26.7000
## 174	66.0000	171.000	26.0000	26.0000
## 175	59.5000	158.000	24.5000	24.5000
## 176	64.0000	168.000	25.5000	25.5000
## 177	66.4000	167.600	24.8000	24.8000
## 178	61.6000	147.500	25.4000	25.4000
## 179	63.5000	163.500	30.5000	30.5000
## 180	61.6000	142.300	24.1000	24.4000
## 181	66.0000	165.000	27.3000	29.2000
## 182	NA	173.000	30.0000	30.0000
## 183	NA	175.500	27.3000	26.7000
## 184	66.0000	171.000	26.0000	26.0000
## 185	59.5000	158.000	24.5000	24.5000
## 186	64.0000	168.000	25.5000	25.5000
## 187	66.4000	167.600	24.8000	24.8000
## 188	61.6000	147.500	25.4000	25.4000
## 189	63.5000	163.500	30.5000	30.5000
## 190	61.6000	142.300	24.1000	24.4000

## 191	66.0000	165.000	27.3000	29.2000
## 192	NA	173.000	30.0000	30.0000
## 193	NA	175.500	27.3000	26.7000
## 194	66.0000	171.000	26.0000	26.0000
## 195	59.5000	158.000	24.5000	24.5000
## 196	64.0000	168.000	25.5000	25.5000
## 197	66.4000	167.600	24.8000	24.8000
## 198	61.6000	147.500	25.4000	25.4000
## 199	63.5000	163.500	30.5000	30.5000
## 200	61.6000	142.300	24.1000	24.4000
## 201	66.0000	165.000	27.3000	29.2000
## 202	NA	173.000	30.0000	30.0000
## 203	NA	175.500	27.3000	26.7000
## 204	66.0000	171.000	26.0000	26.0000
## 205	59.5000	158.000	24.5000	24.5000
## 206	64.0000	168.000	25.5000	25.5000
## 207	66.4000	167.600	24.8000	24.8000
## 208	61.6000	147.500	25.4000	25.4000
## 209	63.5000	163.500	30.5000	30.5000
## 210	61.6000	142.300	24.1000	24.4000
## 211	66.0000	165.000	27.3000	29.2000
## 212	NA	173.000	30.0000	30.0000
## 213	NA	175.500	27.3000	26.7000
## 214	66.0000	171.000	26.0000	26.0000
## 215	59.5000	158.000	24.5000	24.5000
## 216	64.0000	168.000	25.5000	25.5000
## 217	66.4000	167.600	24.8000	24.8000
## 218	61.6000	147.500	25.4000	25.4000
## 219	63.5000	163.500	30.5000	30.5000
## 220	61.6000	142.300	24.1000	24.4000
## 221	66.0000	165.000	27.3000	29.2000
## 222	NA	173.000	30.0000	30.0000
## 223	NA	175.500	27.3000	26.7000
## 224	66.0000	171.000	26.0000	26.0000
## 225	59.5000	158.000	24.5000	24.5000
## 226	64.0000	168.000	25.5000	25.5000
## 227	208.0000	165.000	24.0000	23.5000
## 228	215.0000	175.000	28.0000	27.0000
## 229	218.5000	175.000	25.5000	26.0000
## 230	217.0000	174.000	24.5000	25.5000
## 231	234.5000	181.000	31.0000	29.0000
## 232	203.5000	160.000	27.5000	27.0000
## 233	223.0000	175.000	24.5000	24.0000
## 234	232.5000	172.000	26.5000	27.0000
## 235	106.5000	90.500	15.5000	14.0000
## 236	221.0000	177.000	25.5000	25.0000
## 237	200.3425	154.000	23.5000	23.5000
## 238	214.6300	176.530	26.5000	26.5000
## 239	203.2000	165.100	23.5000	23.5000
## 240	229.8700	180.340	26.5000	26.5000
## 241	212.0000	171.000	26.0000	26.0000
## 242	218.0000	175.000	27.0000	27.0000
## 243	196.0000	155.000	23.2000	23.5000
## 244	220.3450	177.800	24.0000	47.0000

## 245	228.0000	188.000	30.0000	30.0000
## 246	207.0000	170.000	23.0000	23.0000
## 247	79.5000	59.750	9.5000	9.5000
## 248	56.0000	66.000	9.2500	9.0000
## 249	59.0000	74.000	9.5000	9.7500
## 250	146.5000	173.000	24.2000	24.1000
## 251	57.0000	36.000	7.0000	7.0000
## 252	90.0000	70.000	10.0000	10.0000
## 253	57.0000	36.000	7.0000	7.0000
## 254	72.0000	60.000	9.5000	9.5000
## 255	57.0000	36.000	7.0000	7.0000
## 256	27.0000	3.500	10.0000	10.0000
## 257	79.5000	59.750	9.5000	9.5000
## 258	56.0000	66.000	9.2500	9.0000
## 259	59.0000	74.000	9.5000	9.7500
## 260	146.5000	173.000	24.2000	24.1000
## 261	57.0000	36.000	7.0000	7.0000
## 262	90.0000	70.000	10.0000	10.0000
## 263	57.0000	36.000	7.0000	7.0000
## 264	72.0000	60.000	9.5000	9.5000
## 265	57.0000	36.000	7.0000	7.0000
## 266	27.0000	3.500	10.0000	10.0000
## 267	79.5000	59.750	9.5000	9.5000
## 268	56.0000	66.000	9.2500	9.0000
## 269	59.0000	74.000	9.5000	9.7500
## 270	146.5000	173.000	24.2000	24.1000
## 271	57.0000	36.000	7.0000	7.0000
## 272	90.0000	70.000	10.0000	10.0000
## 273	57.0000	36.000	7.0000	7.0000
## 274	72.0000	60.000	9.5000	9.5000
## 275	57.0000	36.000	7.0000	7.0000
## 276	27.0000	3.500	10.0000	10.0000
## 277	234.0000	181.500	28.5000	28.5000
## 278	206.0000	157.000	25.0000	25.5000
## 279	224.5000	180.000	28.0000	28.0000
## 280	233.0000	185.000	28.0000	28.0000
## 281	201.0000	161.500	23.0000	23.0000
## 282	240.0000	186.000	26.0000	26.0000
## 283	215.0000	167.000	25.0000	25.0000
## 284	232.0000	182.500	28.5000	28.5000
## 285	198.0000	154.000	24.5000	24.5000
## 286	232.0000	177.000	27.0000	27.0000
## 287	234.0000	181.500	28.5000	28.5000
## 288	206.0000	157.000	25.0000	25.5000
## 289	224.5000	180.000	28.0000	28.0000
## 290	233.0000	185.000	28.0000	28.0000
## 291	201.0000	161.500	23.0000	23.0000
## 292	240.0000	186.000	26.0000	26.0000
## 293	215.0000	167.000	25.0000	25.0000
## 294	232.0000	182.500	28.5000	28.5000
## 295	198.0000	154.000	24.5000	24.5000
## 296	232.0000	177.000	27.0000	27.0000
## 297	77.0000	60.250	8.6600	8.5000
## 298	88.7500	74.000	10.6600	10.6600

## 299	75.5000	59.000	8.6600	8.6600
## 300	87.8750	69.875	9.9000	9.8750
## 301	80.0000	63.250	9.5000	9.5000
## 302	92.5000	73.500	10.2500	10.2500
## 303	80.3300	62.250	9.0000	9.0000
## 304	81.8750	67.750	9.6600	9.5000
## 305	94.7500	75.250	11.0000	10.7500
## 306	82.0000	65.500	8.7500	9.0000
## 307	216.0000	173.000	26.0000	26.0000
## 308	206.0000	167.000	25.0000	25.0000
## 309	196.0000	159.000	23.0000	23.0000
## 310	190.0000	146.000	24.0000	24.0000
## 311	203.0000	163.000	24.0000	24.0000
## 312	213.0000	177.000	25.0000	25.0000
## 313	194.0000	165.000	24.0000	24.0000
## 314	181.0000	148.000	22.5000	22.5000
## 315	194.0000	167.000	22.0000	23.0000
## 316	201.0000	160.500	24.0000	24.0000
## 317	89.0000	71.500	10.0000	10.0000
## 318	86.0000	68.000	9.0000	9.5000
## 319	89.0000	72.000	10.5000	10.5000
## 320	78.0000	60.000	8.5000	8.5000
## 321	87.5000	72.000	9.7500	10.0000
## 322	77.0000	62.250	9.5000	9.2500
## 323	74.0000	63.500	9.5000	9.7500
## 324	84.0000	72.000	10.2500	10.0000
## 325	81.0000	60.000	10.0000	9.5000
## 326	93.2500	73.500	11.2500	11.0000
## 327	199.0000	159.500	22.0000	21.5000
## 328	212.0000	168.000	25.5000	25.0000
## 329	244.0000	193.000	29.2500	27.5000
## 330	234.2500	185.500	27.0000	26.5000
## 331	199.0000	166.000	24.0000	23.0000
## 332	234.0000	174.000	23.0000	24.0000
## 333	84.0000	179.000	26.5000	26.5000
## 334	204.5000	165.000	21.6000	23.0000
## 335	218.4500	165.000	24.7500	24.1000
## 336	224.7900	189.230	25.0000	26.0000
## 337	205.0000	173.000	26.0000	26.0000
## 338	195.0000	162.000	23.0000	23.5000
## 339	172.0000	139.000	22.0000	22.0000
## 340	197.0000	164.000	23.5000	24.0000
## 341	190.0000	159.000	23.5000	23.5000
## 342	212.5000	171.500	26.0000	26.0000
## 343	181.0000	143.000	21.0000	21.0000
## 344	198.0000	160.000	25.0000	24.5000
## 345	184.0000	148.000	22.5000	23.0000
## 346	182.0000	147.000	23.0000	23.0000
## 347	92.7500	76.000	11.0000	11.0000
## 348	79.0000	62.500	9.2500	9.5000
## 349	89.3000	72.700	10.8000	10.4000
## 350	85.0000	69.000	10.0000	10.5000
## 351	89.5000	72.700	10.3000	10.9000
## 352	80.0000	65.500	9.2500	9.0000

## 353	88.5000	69.250	9.2500	9.2500
## 354	82.0000	67.500	9.7500	9.7500
## 355	92.6000	75.400	11.5000	11.8000
## 356	85.0000	68.125	9.2500	9.0000
## 357	223.0000	176.200	26.4000	26.3000
## 358	225.0000	178.000	25.5000	25.5000
## 359	227.0000	178.000	26.5000	26.6000
## 360	195.0000	152.700	21.6000	21.5000
## 361	209.8000	163.000	24.2000	24.2000
## 362	202.0000	166.500	24.2000	24.2000
## 363	217.0000	172.000	24.5000	24.3000
## 364	213.5000	170.000	25.5000	26.0000
## 365	237.0000	188.800	28.2000	28.3000
## 366	217.0000	176.000	26.0000	26.0000
## 367	209.5000	174.000	24.3000	24.3000
## 368	229.5000	190.500	26.7000	26.7000
## 369	197.8000	157.500	22.0000	22.0000
## 370	212.0000	182.000	25.0000	25.0000
## 371	207.4000	170.000	24.3000	24.0000
## 372	227.0000	181.600	30.5000	30.5000
## 373	200.8000	147.300	22.0000	22.3000
## 374	213.0000	171.000	26.0000	27.0000
## 375	213.0000	168.900	25.7000	26.0000
## 376	211.0000	174.000	28.0000	27.0000
## 377	81.0000	66.000	10.2500	10.4000
## 378	77.5000	59.330	8.7500	8.7500
## 379	84.0000	65.000	9.5000	9.5000
## 380	89.0000	67.000	10.0000	10.0000
## 381	78.2500	68.250	10.5000	10.2500
## 382	79.2500	70.000	10.5000	10.5000
## 383	81.2500	73.000	11.0000	11.0000
## 384	77.0000	61.000	8.5000	8.7500
## 385	59.0000	62.000	7.5000	8.0000
## 386	84.0000	70.000	10.5000	10.5000
## 387	211.0000	158.000	24.0000	24.0000
## 388	218.5000	174.500	25.5000	25.0000
## 389	223.0000	183.500	26.0000	26.0000
## 390	239.5000	185.800	26.0000	26.6000
## 391	230.5000	182.500	26.7000	25.4000
## 392	226.0000	177.500	26.7000	26.5000
## 393	82.0000	66.500	10.7500	10.5000
## 394	76.5000	60.000	9.0000	9.0000
## 395	74.0000	60.000	8.5000	8.5000
## 396	222.5000	181.500	24.5000	26.5000
## 397	244.0000	196.000	27.0000	27.0000
## 398	240.0000	187.000	26.0000	26.0000
## 399	236.0000	183.000	26.0000	26.0000
## 400	216.0000	173.000	24.0000	24.0000
## 401	223.5000	183.000	27.0000	27.0000
## 402	207.0000	165.000	23.0000	23.5000
## 403	236.0000	190.500	28.0000	28.0000
## 404	206.0000	167.500	23.5000	24.0000
## 405	228.5000	185.500	26.5000	26.5000
## 406	210.0000	163.000	23.0000	23.0000

## 407	211.3000	171.400	22.5000	22.8000
## 408	206.5000	165.800	22.1000	21.6000
## 409	198.6000	157.226	22.8000	21.5000
## 410	200.7000	161.500	38.1000	39.4000
## 411	222.6000	175.100	29.1000	28.7000
## 412	204.1000	163.600	21.4000	22.1000
## 413	208.1000	169.700	24.4000	23.9000
## 414	211.4000	175.300	25.6000	25.7000
## 415	216.2000	169.600	25.4000	25.1000
## 416	210.6000	173.400	25.1000	24.7000
## 417	233.0000	156.500	28.5000	29.0000
## 418	219.7100	171.500	22.0000	22.5000
## 419	201.9300	154.940	24.1300	24.6380
## 420	202.5650	161.290	21.5900	21.5900
## 421	231.4575	185.420	27.6225	27.6225
## 422	207.6450	154.940	23.8125	24.1300
## 423	167.6400	133.350	20.9550	21.2725
## 424	228.6000	180.340	25.4000	25.4000
## 425	219.7100	170.180	24.1300	24.1300
## 426	211.4550	165.100	21.5900	21.5900
## 427	211.4550	165.100	21.5900	21.5900
## 428	211.4550	165.100	21.5900	21.5900
##	floor.kneepit.left	floor.kneepit.right	floor.hip.left	floor.hip.right
## 1	37.500	37.500	88.000	87.500
## 2	49.500	51.000	103.000	101.500
## 3	41.000	NA	102.000	NA
## 4	39.000	39.000	88.000	88.000
## 5	42.000	42.000	99.000	99.000
## 6	42.000	42.500	95.000	97.000
## 7	38.500	38.500	89.500	89.500
## 8	38.500	38.500	88.000	88.000
## 9	45.000	NA	96.000	NA
## 10	38.500	NA	88.000	NA
## 11	37.500	37.500	88.000	87.500
## 12	49.500	51.000	103.000	101.500
## 13	41.000	NA	102.000	NA
## 14	39.000	39.000	88.000	88.000
## 15	42.000	42.000	99.000	99.000
## 16	42.000	42.500	95.000	97.000
## 17	38.500	38.500	89.500	89.500
## 18	38.500	38.500	88.000	88.000
## 19	45.000	NA	96.000	NA
## 20	38.500	NA	88.000	NA
## 21	41.000	40.800	88.200	89.600
## 22	52.000	50.500	104.500	105.500
## 23	42.000	41.900	89.500	90.800
## 24	47.000	46.000	103.400	103.300
## 25	44.100	43.100	99.500	99.500
## 26	45.400	45.500	92.400	91.900
## 27	45.000	45.500	102.400	102.500
## 28	44.800	45.000	95.500	95.000
## 29	45.900	45.800	100.800	102.000
## 30	42.000	40.000	96.000	95.200
## 31	19.000	19.250	41.250	41.000

## 32	12.875	13.000	25.750	25.500
## 33	12.500	12.375	27.250	27.000
## 34	19.875	19.875	42.625	42.750
## 35	17.000	17.250	38.250	38.250
## 36	12.000	12.250	26.625	26.750
## 37	19.375	19.625	36.500	37.000
## 38	17.625	17.250	37.500	37.750
## 39	16.750	17.375	36.500	37.000
## 40	19.750	19.626	42.250	41.875
## 41	17.000	17.125	37.500	37.875
## 42	19.000	19.250	41.250	41.000
## 43	12.875	13.000	25.750	25.500
## 44	12.500	12.375	27.250	27.000
## 45	19.875	19.875	42.625	42.750
## 46	17.000	17.250	38.250	38.250
## 47	12.000	12.250	26.625	26.750
## 48	19.375	19.625	36.500	37.000
## 49	17.625	17.250	37.500	37.750
## 50	16.750	17.375	36.500	37.000
## 51	19.750	19.626	42.250	41.875
## 52	17.000	17.125	37.500	37.875
## 53	19.000	19.250	41.250	41.000
## 54	12.875	13.000	25.750	25.500
## 55	12.500	12.375	27.250	27.000
## 56	19.875	19.875	42.625	42.750
## 57	17.000	17.250	38.250	38.250
## 58	12.000	12.250	26.625	26.750
## 59	19.375	19.625	36.500	37.000
## 60	17.625	17.250	37.500	37.750
## 61	16.750	17.375	36.500	37.000
## 62	19.750	19.626	42.250	41.875
## 63	17.000	17.125	37.500	37.875
## 64	19.000	19.250	41.250	41.000
## 65	12.875	13.000	25.750	25.500
## 66	12.500	12.375	27.250	27.000
## 67	19.875	19.875	42.625	42.750
## 68	17.000	17.250	38.250	38.250
## 69	12.000	12.250	26.625	26.750
## 70	19.375	19.625	36.500	37.000
## 71	17.625	17.250	37.500	37.750
## 72	16.750	17.375	36.500	37.000
## 73	19.750	19.626	42.250	41.875
## 74	17.000	17.125	37.500	37.875
## 75	43.500	43.000	94.000	93.500
## 76	45.720	45.600	99.060	99.000
## 77	44.000	44.000	95.700	95.600
## 78	40.500	40.500	88.000	88.000
## 79	41.500	41.500	90.000	90.000
## 80	47.000	47.000	101.000	101.000
## 81	46.000	46.000	100.000	100.000
## 82	41.000	41.000	89.000	88.000
## 83	47.000	47.000	101.000	101.000
## 84	47.000	47.000	102.000	101.000
## 85	46.500	46.500	106.000	106.000

## 86	44.000	44.500	100.500	101.000
## 87	39.500	39.500	82.000	82.500
## 88	43.000	43.000	104.000	104.000
## 89	49.000	49.000	101.000	100.000
## 90	45.000	45.000	102.000	102.000
## 91	42.000	42.000	94.000	94.000
## 92	49.000	49.000	100.500	100.500
## 93	56.000	56.000	103.000	103.000
## 94	51.000	51.000	92.000	93.000
## 95	42.000	42.000	85.000	84.500
## 96	53.000	53.000	113.000	113.000
## 97	18.000	18.000	37.000	37.000
## 98	NA	NA	NA	NA
## 99	NA	NA	NA	NA
## 100	NA	NA	NA	NA
## 101	NA	NA	NA	NA
## 102	NA	NA	NA	NA
## 103	NA	NA	NA	NA
## 104	NA	NA	NA	NA
## 105	NA	NA	NA	NA
## 106	NA	NA	NA	NA
## 107	48.260	48.260	96.520	97.790
## 108	45.720	45.720	101.600	100.965
## 109	49.530	49.530	98.425	97.790
## 110	NA	NA	NA	NA
## 111	NA	NA	NA	NA
## 112	NA	NA	NA	NA
## 113	NA	NA	NA	NA
## 114	NA	NA	NA	NA
## 115	NA	NA	NA	NA
## 116	NA	NA	NA	NA
## 117	NA	45.720	NA	104.140
## 118	NA	38.100	NA	92.075
## 119	NA	34.925	NA	90.170
## 120	NA	37.465	NA	90.170
## 121	NA	35.560	NA	79.375
## 122	NA	33.020	NA	80.010
## 123	50.000	NA	NA	NA
## 124	54.000	NA	NA	NA
## 125	38.100	NA	78.740	NA
## 126	43.000	44.000	98.500	99.000
## 127	53.300	53.300	NA	NA
## 128	45.100	44.500	NA	NA
## 129	48.900	49.500	NA	NA
## 130	41.900	41.300	NA	NA
## 131	55.200	54.000	NA	NA
## 132	50.000	50.000	NA	NA
## 133	47.800	47.800	NA	NA
## 134	51.000	51.000	NA	NA
## 135	47.000	47.500	NA	NA
## 136	44.500	44.000	NA	NA
## 137	53.300	53.300	NA	NA
## 138	45.100	44.500	NA	NA
## 139	48.900	49.500	NA	NA

## 140	41.900	41.300	NA	NA
## 141	55.200	54.000	NA	NA
## 142	50.000	50.000	NA	NA
## 143	47.800	47.800	NA	NA
## 144	51.000	51.000	NA	NA
## 145	47.000	47.500	NA	NA
## 146	44.500	44.000	NA	NA
## 147	53.300	53.300	NA	NA
## 148	45.100	44.500	NA	NA
## 149	48.900	49.500	NA	NA
## 150	41.900	41.300	NA	NA
## 151	55.200	54.000	NA	NA
## 152	50.000	50.000	NA	NA
## 153	47.800	47.800	NA	NA
## 154	51.000	51.000	NA	NA
## 155	47.000	47.500	NA	NA
## 156	44.500	44.000	NA	NA
## 157	53.300	53.300	NA	NA
## 158	45.100	44.500	NA	NA
## 159	48.900	49.500	NA	NA
## 160	41.900	41.300	NA	NA
## 161	55.200	54.000	NA	NA
## 162	50.000	50.000	NA	NA
## 163	47.800	47.800	NA	NA
## 164	51.000	51.000	NA	NA
## 165	47.000	47.500	NA	NA
## 166	44.500	44.000	NA	NA
## 167	53.300	53.300	NA	NA
## 168	45.100	44.500	NA	NA
## 169	48.900	49.500	NA	NA
## 170	41.900	41.300	NA	NA
## 171	55.200	54.000	NA	NA
## 172	50.000	50.000	NA	NA
## 173	47.800	47.800	NA	NA
## 174	51.000	51.000	NA	NA
## 175	47.000	47.500	NA	NA
## 176	44.500	44.000	NA	NA
## 177	53.300	53.300	NA	NA
## 178	45.100	44.500	NA	NA
## 179	48.900	49.500	NA	NA
## 180	41.900	41.300	NA	NA
## 181	55.200	54.000	NA	NA
## 182	50.000	50.000	NA	NA
## 183	47.800	47.800	NA	NA
## 184	51.000	51.000	NA	NA
## 185	47.000	47.500	NA	NA
## 186	44.500	44.000	NA	NA
## 187	53.300	53.300	NA	NA
## 188	45.100	44.500	NA	NA
## 189	48.900	49.500	NA	NA
## 190	41.900	41.300	NA	NA
## 191	55.200	54.000	NA	NA
## 192	50.000	50.000	NA	NA
## 193	47.800	47.800	NA	NA

## 194	51.000	51.000	NA	NA
## 195	47.000	47.500	NA	NA
## 196	44.500	44.000	NA	NA
## 197	53.300	53.300	NA	NA
## 198	45.100	44.500	NA	NA
## 199	48.900	49.500	NA	NA
## 200	41.900	41.300	NA	NA
## 201	55.200	54.000	NA	NA
## 202	50.000	50.000	NA	NA
## 203	47.800	47.800	NA	NA
## 204	51.000	51.000	NA	NA
## 205	47.000	47.500	NA	NA
## 206	44.500	44.000	NA	NA
## 207	53.300	53.300	NA	NA
## 208	45.100	44.500	NA	NA
## 209	48.900	49.500	NA	NA
## 210	41.900	41.300	NA	NA
## 211	55.200	54.000	NA	NA
## 212	50.000	50.000	NA	NA
## 213	47.800	47.800	NA	NA
## 214	51.000	51.000	NA	NA
## 215	47.000	47.500	NA	NA
## 216	44.500	44.000	NA	NA
## 217	53.300	53.300	NA	NA
## 218	45.100	44.500	NA	NA
## 219	48.900	49.500	NA	NA
## 220	41.900	41.300	NA	NA
## 221	55.200	54.000	NA	NA
## 222	50.000	50.000	NA	NA
## 223	47.800	47.800	NA	NA
## 224	51.000	51.000	NA	NA
## 225	47.000	47.500	NA	NA
## 226	44.500	44.000	NA	NA
## 227	45.000	46.000	100.000	101.000
## 228	49.000	49.000	102.000	101.000
## 229	47.000	47.500	100.000	99.500
## 230	45.500	46.000	100.500	100.500
## 231	50.000	49.000	110.000	109.500
## 232	50.000	49.000	100.000	101.000
## 233	49.000	48.000	102.500	103.500
## 234	50.000	49.500	96.000	95.000
## 235	23.000	24.000	46.500	47.000
## 236	50.000	51.000	104.000	103.000
## 237	42.000	42.000	93.500	93.500
## 238	46.000	46.000	103.000	103.000
## 239	40.000	40.000	94.000	94.000
## 240	49.000	49.000	103.000	103.000
## 241	50.000	50.000	102.000	102.000
## 242	50.000	50.000	105.000	105.000
## 243	40.500	40.300	96.000	96.300
## 244	47.000	101.000	101.000	101.000
## 245	58.000	58.000	104.000	104.000
## 246	48.000	48.000	35.000	35.000
## 247	15.500	15.500	35.000	35.000

## 248	18.000	18.000	35.000	35.000
## 249	17.500	17.500	41.000	41.000
## 250	40.500	40.000	99.000	101.000
## 251	13.000	13.000	24.500	24.500
## 252	20.000	20.000	39.000	39.000
## 253	13.000	13.000	24.500	24.500
## 254	18.000	18.000	37.000	37.000
## 255	13.000	13.000	24.500	24.500
## 256	21.000	21.000	23.000	22.000
## 257	15.500	15.500	35.000	35.000
## 258	18.000	18.000	35.000	35.000
## 259	17.500	17.500	41.000	41.000
## 260	40.500	40.000	99.000	101.000
## 261	13.000	13.000	24.500	24.500
## 262	20.000	20.000	39.000	39.000
## 263	13.000	13.000	24.500	24.500
## 264	18.000	18.000	37.000	37.000
## 265	13.000	13.000	24.500	24.500
## 266	21.000	21.000	23.000	22.000
## 267	15.500	15.500	35.000	35.000
## 268	18.000	18.000	35.000	35.000
## 269	17.500	17.500	41.000	41.000
## 270	40.500	40.000	99.000	101.000
## 271	13.000	13.000	24.500	24.500
## 272	20.000	20.000	39.000	39.000
## 273	13.000	13.000	24.500	24.500
## 274	18.000	18.000	37.000	37.000
## 275	13.000	13.000	24.500	24.500
## 276	21.000	21.000	23.000	22.000
## 277	44.000	44.000	100.500	100.500
## 278	40.500	40.500	96.500	96.500
## 279	44.500	44.500	104.500	104.000
## 280	47.000	47.000	101.500	101.500
## 281	41.500	41.500	97.000	97.500
## 282	48.500	48.500	108.000	108.000
## 283	43.500	43.500	96.000	95.000
## 284	43.000	43.000	95.500	95.500
## 285	39.000	39.000	94.500	94.500
## 286	44.000	44.000	98.000	98.000
## 287	44.000	44.000	100.500	100.500
## 288	40.500	40.500	96.500	96.500
## 289	44.500	44.500	104.500	104.000
## 290	47.000	47.000	101.500	101.500
## 291	41.500	41.500	97.000	97.500
## 292	48.500	48.500	108.000	108.000
## 293	43.500	43.500	96.000	95.000
## 294	43.000	43.000	95.500	95.500
## 295	39.000	39.000	94.500	94.500
## 296	44.000	44.000	98.000	98.000
## 297	14.660	14.750	34.750	35.000
## 298	19.750	19.660	40.330	40.250
## 299	16.330	16.250	34.000	34.100
## 300	17.750	17.875	39.500	39.330
## 301	17.000	17.000	37.000	37.000

## 302	21.000	20.000	42.750	42.000
## 303	17.000	17.000	34.100	34.250
## 304	16.900	16.900	40.660	40.330
## 305	20.000	20.000	41.000	41.500
## 306	16.750	17.000	37.660	38.000
## 307	47.500	48.000	96.000	96.000
## 308	49.000	48.000	95.000	94.500
## 309	43.000	44.000	88.000	89.000
## 310	47.000	49.000	89.000	90.000
## 311	49.000	50.000	96.000	96.000
## 312	47.000	47.000	94.000	93.000
## 313	46.000	48.000	96.000	95.500
## 314	46.000	44.500	93.500	93.000
## 315	47.000	48.000	93.000	93.000
## 316	49.000	49.000	98.000	98.000
## 317	16.500	16.750	35.750	34.750
## 318	17.000	16.750	38.000	38.000
## 319	18.000	18.000	41.500	41.500
## 320	15.000	15.000	34.500	34.500
## 321	16.750	16.500	40.750	41.000
## 322	17.000	16.000	31.500	31.250
## 323	16.500	16.000	36.000	35.000
## 324	18.000	18.500	42.500	38.000
## 325	19.000	19.000	38.000	38.000
## 326	19.000	19.000	41.500	41.000
## 327	36.000	35.500	93.000	92.000
## 328	44.000	44.000	100.000	100.000
## 329	52.000	51.000	101.000	109.250
## 330	52.000	52.750	110.000	108.000
## 331	40.500	40.000	84.500	85.000
## 332	47.000	48.000	102.000	103.000
## 333	45.500	45.500	101.500	100.000
## 334	39.400	40.600	96.500	96.500
## 335	39.250	39.250	91.500	91.500
## 336	46.000	45.500	90.000	89.000
## 337	45.500	45.500	97.000	97.000
## 338	42.000	42.000	88.000	88.000
## 339	38.000	38.000	78.000	79.000
## 340	44.000	44.000	86.000	86.000
## 341	40.000	41.000	83.000	84.000
## 342	49.000	49.000	96.000	97.000
## 343	43.000	43.000	78.000	80.000
## 344	45.000	45.000	89.000	90.000
## 345	42.500	42.000	89.000	89.000
## 346	39.000	40.000	87.000	88.000
## 347	21.500	20.500	39.000	39.000
## 348	16.750	16.500	35.500	35.500
## 349	18.500	19.000	41.500	41.500
## 350	16.600	18.250	42.000	41.100
## 351	18.300	21.100	42.100	42.300
## 352	17.500	17.250	36.000	36.250
## 353	20.500	20.000	39.250	39.500
## 354	17.750	17.750	36.250	36.250
## 355	18.700	18.900	44.200	44.300

## 356	18.500	18.500	38.875	38.875
## 357	45.000	45.200	94.500	95.000
## 358	45.000	45.000	93.000	93.000
## 359	48.000	48.100	94.000	94.000
## 360	39.300	39.200	82.000	82.000
## 361	41.000	41.500	89.000	89.000
## 362	42.000	42.000	84.200	84.000
## 363	49.000	49.000	87.800	88.000
## 364	41.500	42.000	92.000	91.500
## 365	47.000	48.000	96.000	96.500
## 366	42.000	42.000	93.000	93.000
## 367	46.400	45.700	97.000	96.500
## 368	52.100	51.300	103.500	102.900
## 369	41.000	41.000	91.000	91.000
## 370	45.700	43.000	98.000	99.000
## 371	43.200	42.900	92.000	92.200
## 372	72.200	74.900	101.600	101.600
## 373	46.000	45.800	91.400	91.500
## 374	43.000	43.000	92.500	92.500
## 375	50.000	51.000	94.000	95.100
## 376	45.700	45.700	94.000	94.000
## 377	16.750	16.500	35.000	35.000
## 378	16.000	16.000	33.000	33.000
## 379	19.250	19.330	36.000	36.000
## 380	19.000	19.000	38.000	38.000
## 381	17.500	17.750	34.000	35.000
## 382	17.500	17.750	32.000	33.000
## 383	18.000	18.000	33.500	33.250
## 384	15.750	16.000	33.250	33.500
## 385	18.500	18.000	36.000	35.000
## 386	16.250	16.250	34.500	34.500
## 387	46.000	47.000	95.500	96.000
## 388	51.000	51.500	101.000	101.500
## 389	44.000	44.000	98.000	102.000
## 390	54.500	54.000	110.000	111.000
## 391	51.500	50.000	113.000	113.000
## 392	51.000	52.000	107.500	107.000
## 393	19.000	19.000	38.000	38.500
## 394	17.500	17.500	35.000	35.000
## 395	16.000	16.000	33.000	32.500
## 396	51.000	51.000	106.000	107.000
## 397	46.000	46.000	103.000	103.000
## 398	45.000	45.000	101.000	101.000
## 399	46.000	46.000	105.000	106.000
## 400	45.000	45.000	99.000	99.000
## 401	49.000	49.000	101.000	101.000
## 402	40.500	40.500	95.500	95.500
## 403	47.000	47.000	95.500	96.000
## 404	43.000	43.000	99.000	99.000
## 405	53.500	53.500	99.000	99.500
## 406	43.000	43.000	96.000	96.000
## 407	41.900	41.800	91.400	91.100
## 408	41.900	42.600	99.400	100.300
## 409	52.000	52.100	91.400	92.700

## 410	24.500	24.600	96.500	97.000		
## 411	57.800	57.400	101.000	101.200		
## 412	40.800	41.100	98.500	98.700		
## 413	50.100	49.700	90.400	90.900		
## 414	50.500	51.100	87.500	88.100		
## 415	54.600	54.100	96.500	96.900		
## 416	48.200	47.400	91.300	92.100		
## 417	46.000	46.500	112.000	113.000		
## 418	45.720	45.500	93.000	92.500		
## 419	40.640	41.125	93.980	92.500		
## 420	41.910	40.640	95.600	93.980		
## 421	45.085	45.085	109.220	111.760		
## 422	40.640	40.640	99.060	99.060		
## 423	36.195	36.195	78.740	78.740		
## 424	41.910	41.910	101.600	100.965		
## 425	43.180	43.180	96.520	95.250		
## 426	39.370	39.370	95.250	95.250		
## 427	39.370	39.370	95.250	95.250		
## 428	39.370	39.370	95.250	95.250		
##	floor.navel.NA	floor.earmpit.left	floor.earmpit.right	units	writing	eye
## 1	NA	122.500	124.500	cm	right	both
## 2	NA	140.100	141.400	cm	right	both
## 3	NA	139.000	NA	cm	left	both
## 4	NA	127.000	127.000	cm	right	both
## 5	NA	144.000	144.000	cm	left	left
## 6	NA	131.000	131.600	cm	right	both
## 7	NA	122.000	122.000	cm	right	both
## 8	NA	123.000	123.000	cm	right	both
## 9	NA	135.000	NA	cm	right	right
## 10	NA	127.000	NA	cm	right	both
## 11	NA	122.500	124.500	cm	right	both
## 12	NA	140.100	141.400	cm	right	both
## 13	NA	139.000	NA	cm	left	both
## 14	NA	127.000	127.000	cm	right	both
## 15	NA	144.000	144.000	cm	left	left
## 16	NA	131.000	131.600	cm	right	both
## 17	NA	122.000	122.000	cm	right	both
## 18	NA	123.000	123.000	cm	right	both
## 19	NA	135.000	NA	cm	right	right
## 20	NA	127.000	NA	cm	right	both
## 21	86.400	117.000	116.000	cm	right	right
## 22	112.500	144.500	143.200	cm	right	right
## 23	91.300	117.800	119.900	cm	right	right
## 24	105.400	128.000	127.000	cm	right	right
## 25	96.000	126.000	126.000	cm	left	left
## 26	95.800	123.200	121.800	cm	right	right
## 27	104.000	141.500	141.500	cm	right	left
## 28	102.000	130.000	134.000	cm	left	right
## 29	101.000	130.400	129.900	cm	right	left
## 30	94.000	119.000	120.800	cm	right	right
## 31	41.250	58.000	57.500	inches	right	right
## 32	25.875	35.000	35.000	inches	left	right
## 33	27.625	35.500	35.500	inches	right	left
## 34	42.625	57.000	56.875	inches	right	left

## 35	38.500	51.750	51.500 inches	left	right
## 36	25.625	35.500	35.250 inches	right	right
## 37	36.000	49.500	49.250 inches	right	left
## 38	36.750	54.500	54.750 inches	right	left
## 39	37.000	50.000	51.000 inches	right	right
## 40	40.750	57.750	57.000 inches	right	right
## 41	37.750	52.250	52.000 inches	right	left
## 42	41.250	58.000	57.500 inches	right	right
## 43	25.875	35.000	35.000 inches	left	right
## 44	27.625	35.500	35.500 inches	right	left
## 45	42.625	57.000	56.875 inches	right	left
## 46	38.500	51.750	51.500 inches	left	right
## 47	25.625	35.500	35.250 inches	right	right
## 48	36.000	49.500	49.250 inches	right	left
## 49	36.750	54.500	54.750 inches	right	left
## 50	37.000	50.000	51.000 inches	right	right
## 51	40.750	57.750	57.000 inches	right	right
## 52	37.750	52.250	52.000 inches	right	left
## 53	41.250	58.000	57.500 inches	right	right
## 54	25.875	35.000	35.000 inches	left	right
## 55	27.625	35.500	35.500 inches	right	left
## 56	42.625	57.000	56.875 inches	right	left
## 57	38.500	51.750	51.500 inches	left	right
## 58	25.625	35.500	35.250 inches	right	right
## 59	36.000	49.500	49.250 inches	right	left
## 60	36.750	54.500	54.750 inches	right	left
## 61	37.000	50.000	51.000 inches	right	right
## 62	40.750	57.750	57.000 inches	right	right
## 63	37.750	52.250	52.000 inches	right	left
## 64	41.250	58.000	57.500 inches	right	right
## 65	25.875	35.000	35.000 inches	left	right
## 66	27.625	35.500	35.500 inches	right	left
## 67	42.625	57.000	56.875 inches	right	left
## 68	38.500	51.750	51.500 inches	left	right
## 69	25.625	35.500	35.250 inches	right	right
## 70	36.000	49.500	49.250 inches	right	left
## 71	36.750	54.500	54.750 inches	right	left
## 72	37.000	50.000	51.000 inches	right	right
## 73	40.750	57.750	57.000 inches	right	right
## 74	37.750	52.250	52.000 inches	right	left
## 75	98.500	136.000	134.000 cm	right	right
## 76	109.000	135.900	136.000 cm	right	right
## 77	105.300	131.200	131.300 cm	right	right
## 78	96.500	120.000	120.000 cm	right	right
## 79	99.000	123.000	123.000 cm	right	right
## 80	112.000	139.000	139.000 cm	right	right
## 81	110.000	138.000	138.000 cm	right	right
## 82	97.000	122.000	122.000 cm	left	both
## 83	111.000	139.000	139.000 cm	right	right
## 84	111.000	139.000	139.000 cm	right	right
## 85	109.000	137.000	137.000 cm	right	left
## 86	99.000	136.000	134.500 cm	right	right
## 87	90.000	121.500	121.500 cm	right	brown
## 88	107.000	139.000	139.000 cm	right	right

## 89	101.000	130.000	129.000	cm	right	right
## 90	99.000	128.000	128.000	cm	right	right
## 91	99.000	130.000	130.000	cm	right	left
## 92	104.000	137.000	137.000	cm	left	left
## 93	108.000	141.000	141.000	cm	right	right
## 94	103.000	139.000	140.000	cm	right	left
## 95	97.000	124.500	125.000	cm	right	right
## 96	109.000	144.000	144.000	cm	right	left
## 97	38.500	52.000	52.000	inches	right	left
## 98	NA	NA	NA	inches	right	right
## 99	NA	NA	NA	inches	right	right
## 100	NA	NA	NA	inches	both	<NA>
## 101	NA	NA	NA	inches	right	left
## 102	NA	NA	NA	inches	left	right
## 103	NA	NA	NA	inches	right	left
## 104	NA	NA	NA	inches	left	left
## 105	NA	NA	NA	inches	right	right
## 106	NA	NA	NA	inches	right	right
## 107	99.060	132.080	134.620	cm	right	left
## 108	92.000	124.460	124.460	cm	right	right
## 109	98.000	138.430	137.160	cm	right	right
## 110	NA	NA	NA	cm	right	right
## 111	NA	NA	NA	cm	right	right
## 112	NA	NA	NA	cm	right	left
## 113	NA	NA	NA	cm	right	right
## 114	NA	NA	NA	cm	right	right
## 115	NA	NA	NA	cm	right	right
## 116	NA	NA	NA	cm	right	left
## 117	NA	NA	152.400	cm	Right	Left
## 118	NA	NA	129.000	cm	Left	Right
## 119	NA	NA	118.110	cm	Left	Right
## 120	NA	NA	112.395	cm	Right	Left
## 121	NA	NA	106.045	cm	Right	Left
## 122	NA	NA	104.140	cm	Right	Left
## 123	NA	135.000	NA	cm	Left	Right
## 124	NA	143.000	NA	cm	Left	Left
## 125	NA	111.760	NA	cm	Left	Right
## 126	107.500	149.000	148.000	cm	Right	Left
## 127	141.000	141.000	100.300	cm	right	left
## 128	123.200	124.500	87.600	cm	right	left
## 129	139.700	139.700	97.800	cm	left	right
## 130	123.200	123.200	85.100	cm	right	right
## 131	151.100	149.900	101.600	cm	right	left
## 132	143.000	143.000	NA	cm	right	right
## 133	150.500	150.500	97.200	cm	right	right
## 134	140.000	140.000	100.000	cm	right	right
## 135	132.500	132.500	94.000	cm	right	right
## 136	126.500	126.500	100.000	cm	right	right
## 137	141.000	141.000	100.300	cm	right	left
## 138	123.200	124.500	87.600	cm	right	left
## 139	139.700	139.700	97.800	cm	left	right
## 140	123.200	123.200	85.100	cm	right	right
## 141	151.100	149.900	101.600	cm	right	left
## 142	143.000	143.000	NA	cm	right	right

## 143	150.500	150.500	97.200	cm	right	right
## 144	140.000	140.000	100.000	cm	right	right
## 145	132.500	132.500	94.000	cm	right	right
## 146	126.500	126.500	100.000	cm	right	right
## 147	141.000	141.000	100.300	cm	right	left
## 148	123.200	124.500	87.600	cm	right	left
## 149	139.700	139.700	97.800	cm	left	right
## 150	123.200	123.200	85.100	cm	right	right
## 151	151.100	149.900	101.600	cm	right	left
## 152	143.000	143.000	NA	cm	right	right
## 153	150.500	150.500	97.200	cm	right	right
## 154	140.000	140.000	100.000	cm	right	right
## 155	132.500	132.500	94.000	cm	right	right
## 156	126.500	126.500	100.000	cm	right	right
## 157	141.000	141.000	100.300	cm	right	left
## 158	123.200	124.500	87.600	cm	right	left
## 159	139.700	139.700	97.800	cm	left	right
## 160	123.200	123.200	85.100	cm	right	right
## 161	151.100	149.900	101.600	cm	right	left
## 162	143.000	143.000	NA	cm	right	right
## 163	150.500	150.500	97.200	cm	right	right
## 164	140.000	140.000	100.000	cm	right	right
## 165	132.500	132.500	94.000	cm	right	right
## 166	126.500	126.500	100.000	cm	right	right
## 167	141.000	141.000	100.300	cm	right	left
## 168	123.200	124.500	87.600	cm	right	left
## 169	139.700	139.700	97.800	cm	left	right
## 170	123.200	123.200	85.100	cm	right	right
## 171	151.100	149.900	101.600	cm	right	left
## 172	143.000	143.000	NA	cm	right	right
## 173	150.500	150.500	97.200	cm	right	right
## 174	140.000	140.000	100.000	cm	right	right
## 175	132.500	132.500	94.000	cm	right	right
## 176	126.500	126.500	100.000	cm	right	right
## 177	141.000	141.000	100.300	cm	right	left
## 178	123.200	124.500	87.600	cm	right	left
## 179	139.700	139.700	97.800	cm	left	right
## 180	123.200	123.200	85.100	cm	right	right
## 181	151.100	149.900	101.600	cm	right	left
## 182	143.000	143.000	NA	cm	right	right
## 183	150.500	150.500	97.200	cm	right	right
## 184	140.000	140.000	100.000	cm	right	right
## 185	132.500	132.500	94.000	cm	right	right
## 186	126.500	126.500	100.000	cm	right	right
## 187	141.000	141.000	100.300	cm	right	left
## 188	123.200	124.500	87.600	cm	right	left
## 189	139.700	139.700	97.800	cm	left	right
## 190	123.200	123.200	85.100	cm	right	right
## 191	151.100	149.900	101.600	cm	right	left
## 192	143.000	143.000	NA	cm	right	right
## 193	150.500	150.500	97.200	cm	right	right
## 194	140.000	140.000	100.000	cm	right	right
## 195	132.500	132.500	94.000	cm	right	right
## 196	126.500	126.500	100.000	cm	right	right

## 197	141.000	141.000	100.300	cm	right	left
## 198	123.200	124.500	87.600	cm	right	left
## 199	139.700	139.700	97.800	cm	left	right
## 200	123.200	123.200	85.100	cm	right	right
## 201	151.100	149.900	101.600	cm	right	left
## 202	143.000	143.000	NA	cm	right	right
## 203	150.500	150.500	97.200	cm	right	right
## 204	140.000	140.000	100.000	cm	right	right
## 205	132.500	132.500	94.000	cm	right	right
## 206	126.500	126.500	100.000	cm	right	right
## 207	141.000	141.000	100.300	cm	right	left
## 208	123.200	124.500	87.600	cm	right	left
## 209	139.700	139.700	97.800	cm	left	right
## 210	123.200	123.200	85.100	cm	right	right
## 211	151.100	149.900	101.600	cm	right	left
## 212	143.000	143.000	NA	cm	right	right
## 213	150.500	150.500	97.200	cm	right	right
## 214	140.000	140.000	100.000	cm	right	right
## 215	132.500	132.500	94.000	cm	right	right
## 216	126.500	126.500	100.000	cm	right	right
## 217	141.000	141.000	100.300	cm	right	left
## 218	123.200	124.500	87.600	cm	right	left
## 219	139.700	139.700	97.800	cm	left	right
## 220	123.200	123.200	85.100	cm	right	right
## 221	151.100	149.900	101.600	cm	right	left
## 222	143.000	143.000	NA	cm	right	right
## 223	150.500	150.500	97.200	cm	right	right
## 224	140.000	140.000	100.000	cm	right	right
## 225	132.500	132.500	94.000	cm	right	right
## 226	126.500	126.500	100.000	cm	right	right
## 227	103.500	126.000	126.500	cm	right	left
## 228	107.000	137.500	138.000	cm	right	left
## 229	104.000	134.500	135.500	cm	right	right
## 230	103.500	137.000	135.000	cm	right	right
## 231	110.500	150.000	152.000	cm	right	left
## 232	102.000	132.000	131.500	cm	right	right
## 233	102.000	131.500	133.000	cm	right	right
## 234	109.000	139.000	136.500	cm	right	right
## 235	49.000	70.000	69.000	cm	both	<NA>
## 236	104.500	143.500	145.000	cm	left	left
## 237	94.500	115.500	115.500	cm	right	right
## 238	104.000	126.000	126.000	cm	right	right
## 239	92.500	123.500	123.500	cm	right	right
## 240	105.000	133.500	133.500	cm	right	right
## 241	105.000	130.000	130.000	cm	right	right
## 242	106.000	133.000	133.000	cm	right	right
## 243	94.000	122.800	122.400	cm	right	right
## 244	100.000	133.000	133.000	cm	right	right
## 245	108.000	147.000	147.000	cm	right	left
## 246	89.000	106.000	106.000	cm	right	right
## 247	37.000	46.750	47.000	in	Right	Right
## 248	41.000	54.000	54.000	in	Right	Right
## 249	42.000	55.000	55.000	in	Left	Left
## 250	96.000	136.000	133.000	cm	Right	Right

## 251	27.000	35.500	35.000	cm	Right	Right
## 252	42.000	50.000	50.000	in	Right	Right
## 253	27.000	35.500	35.000	in	Right	Right
## 254	39.000	50.000	50.000	in	Right	Left
## 255	27.000	35.500	35.000	in	Right	Right
## 256	39.000	50.500	50.000	in	Right	Right
## 257	37.000	46.750	47.000	in	Right	Right
## 258	41.000	54.000	54.000	in	Right	Right
## 259	42.000	55.000	55.000	in	Left	Left
## 260	96.000	136.000	133.000	cm	Right	Right
## 261	27.000	35.500	35.000	cm	Right	Right
## 262	42.000	50.000	50.000	in	Right	Right
## 263	27.000	35.500	35.000	in	Right	Right
## 264	39.000	50.000	50.000	in	Right	Left
## 265	27.000	35.500	35.000	in	Right	Right
## 266	39.000	50.500	50.000	in	Right	Right
## 267	37.000	46.750	47.000	in	Right	Right
## 268	41.000	54.000	54.000	in	Right	Right
## 269	42.000	55.000	55.000	in	Left	Left
## 270	96.000	136.000	133.000	cm	Right	Right
## 271	27.000	35.500	35.000	cm	Right	Right
## 272	42.000	50.000	50.000	in	Right	Right
## 273	27.000	35.500	35.000	in	Right	Right
## 274	39.000	50.000	50.000	in	Right	Left
## 275	27.000	35.500	35.000	in	Right	Right
## 276	39.000	50.500	50.000	in	Right	Right
## 277	103.500	142.500	142.500	cm	right	left
## 278	NA	134.500	134.500	cm	right	left
## 279	NA	142.000	142.000	cm	right	right
## 280	NA	145.000	145.000	cm	right	right
## 281	98.000	127.500	127.500	cm	right	right
## 282	115.500	144.000	144.000	cm	right	left
## 283	98.500	135.500	136.000	cm	left	left
## 284	103.000	142.000	142.000	cm	right	left
## 285	NA	126.000	126.000	cm	right	left
## 286	NA	138.000	138.000	cm	right	right
## 287	103.500	142.500	142.500	cm	right	left
## 288	NA	134.500	134.500	cm	right	left
## 289	NA	142.000	142.000	cm	right	right
## 290	NA	145.000	145.000	cm	right	right
## 291	98.000	127.500	127.500	cm	right	right
## 292	115.500	144.000	144.000	cm	right	left
## 293	98.500	135.500	136.000	cm	left	left
## 294	103.000	142.000	142.000	cm	right	left
## 295	NA	126.000	126.000	cm	right	left
## 296	NA	138.000	138.000	cm	right	right
## 297	35.000	48.500	48.660	in	right	right
## 298	41.000	53.500	53.500	in	right	right
## 299	34.250	48.750	48.660	in	right	right
## 300	40.100	53.875	53.500	in	right	right
## 301	37.500	51.000	52.000	in	right	right
## 302	44.500	60.500	61.000	in	right	right
## 303	34.500	50.875	50.750	in	right	right
## 304	41.750	53.250	53.100	in	right	right

## 305	43.750	57.500	57.750	in	right	right
## 306	39.750	52.000	51.000	in	right	right
## 307	100.000	129.000	129.000	cm	right	right
## 308	102.000	126.000	127.000	cm	right	right
## 309	94.000	119.000	120.000	cm	right	right
## 310	93.000	110.000	111.000	cm	right	right
## 311	98.000	127.000	126.000	cm	right	right
## 312	97.000	130.000	130.000	cm	right	right
## 313	91.000	121.000	121.000	cm	right	both
## 314	88.500	122.000	122.000	cm	right	right
## 315	90.000	121.000	123.000	cm	right	both
## 316	91.500	130.000	133.000	cm	right	both
## 317	41.000	59.750	59.000	inches	right	right
## 318	40.000	52.000	51.000	inches	left	left
## 319	42.500	52.000	52.000	inches	right	right
## 320	34.250	46.000	46.000	inches	right	right
## 321	42.250	56.000	55.500	inches	right	right
## 322	33.500	45.000	46.000	inches	right	right
## 323	37.500	49.000	49.000	inches	right	right
## 324	43.000	54.000	54.000	inches	right	right
## 325	38.500	46.000	46.000	inches	right	right
## 326	42.500	59.250	59.000	inches	right	right
## 327	91.500	123.000	123.000	cm	right	right
## 328	98.500	135.000	136.000	cm	right	right
## 329	113.000	156.750	156.250	cm	right	left
## 330	111.000	146.000	152.500	cm	right	right
## 331	90.000	130.000	130.000	cm	right	left
## 332	107.500	144.000	143.000	cm	right	left
## 333	104.000	127.000	127.000	cm	right	right
## 334	96.500	134.000	131.500	cm	left	left
## 335	97.000	133.250	134.500	cm	left	left
## 336	170.180	137.000	136.500	inches	right	right
## 337	101.000	131.000	132.000	cm	right	both
## 338	92.000	126.000	125.000	cm	right	both
## 339	85.000	108.000	108.000	cm	right	left
## 340	93.000	119.000	119.000	cm	left	left
## 341	95.000	123.000	122.000	cm	right	right
## 342	101.000	134.000	135.000	cm	right	right
## 343	83.000	111.000	112.000	cm	right	both
## 344	96.000	121.000	120.000	cm	left	both
## 345	93.000	118.000	117.000	cm	right	both
## 346	92.000	112.000	112.000	cm	right	right
## 347	42.500	56.750	56.750	"in"	"right"	"right"
## 348	37.000	50.000	49.000	"in"	"right"	"both"
## 349	42.800	58.000	58.800	"in"	"right"	"both"
## 350	41.500	53.000	53.200	"in"	"right"	"right"
## 351	43.000	56.400	56.000	"in"	"right"	"right"
## 352	39.000	50.000	50.000	"in"	"right"	"right"
## 353	42.000	56.500	56.500	"in"	"right"	"right"
## 354	39.125	50.250	50.250	"in"	"right"	"left"
## 355	45.300	59.200	62.000	"in"	"right"	"left"
## 356	41.000	52.000	52.000	"in"	"right"	"right"
## 357	109.000	141.000	141.000	cm	right	right
## 358	107.000	142.000	142.200	cm	right	right

## 359	109.000	143.000	143.000	cm	right	right
## 360	94.000	119.000	119.500	cm	right	right
## 361	100.000	126.500	126.400	cm	right	right
## 362	95.000	122.200	123.000	cm	right	left
## 363	95.000	104.000	104.300	cm	right	left
## 364	103.500	133.000	132.000	cm	right	right
## 365	114.500	147.000	147.000	cm	right	left
## 366	104.000	130.000	130.000	cm	right	right
## 367	100.500	127.000	128.200	cm	right	equal
## 368	108.200	135.300	137.200	cm	both	equal
## 369	94.000	119.400	120.000	cm	right	left
## 370	104.000	131.000	132.000	cm	right	right
## 371	97.000	129.000	129.200	cm	right	equal
## 372	109.200	144.800	143.500	cm	right	right
## 373	101.600	132.000	132.000	cm	right	equal
## 374	100.000	126.500	126.000	cm	right	left
## 375	98.100	133.000	134.000	cm	right	equal
## 376	106.700	130.800	132.100	cm	right	right
## 377	38.750	55.750	55.750	Inch	right	right
## 378	35.500	45.000	45.000	Inch	right	left
## 379	40.000	51.000	51.000	Inch	left	left
## 380	41.000	49.000	48.000	Inch	right	left
## 381	36.500	51.500	51.250	Inch	left	right
## 382	35.250	50.250	50.500	Inch	right	left
## 383	34.250	51.250	51.500	Inch	left	left
## 384	36.000	51.500	51.500	Inch	right	right
## 385	38.000	46.000	45.000	Inch	left	left
## 386	39.000	55.000	55.000	Inch	right	left
## 387	102.000	127.000	127.000	cm	right	left
## 388	102.000	133.000	133.000	cm	right	left
## 389	106.000	144.500	145.000	cm	left	<NA>
## 390	114.000	155.000	156.000	cm	right	right
## 391	114.000	147.000	146.000	cm	right	right
## 392	111.000	144.000	144.000	cm	right	right
## 393	38.500	54.000	54.000	in	right	<NA>
## 394	36.500	49.000	49.000	in	right	right
## 395	33.500	48.500	49.000	in	right	right
## 396	109.000	137.000	138.000	cm	left	right
## 397	NA	144.000	144.000	cm	right	right
## 398	NA	145.000	145.000	cm	right	right
## 399	NA	141.000	141.000	cm	right	right
## 400	NA	143.500	143.500	cm	right	right
## 401	NA	147.000	147.000	cm	right	right
## 402	NA	122.000	122.000	cm	right	right
## 403	NA	146.000	146.000	cm	right	right
## 404	NA	127.000	127.000	cm	right	right
## 405	NA	137.000	137.000	cm	left	right
## 406	NA	120.000	120.000	cm	right	right
## 407	98.500	123.200	123.500	cm	left	right
## 408	101.600	127.500	126.900	cm	right	left
## 409	100.300	125.900	126.700	cm	right	left
## 410	92.700	122.400	123.200	cm	left	right
## 411	106.500	144.300	144.700	cm	right	left
## 412	99.800	125.000	124.800	cm	right	right

## 413	102.400	130.500	130.100	cm	right	left	
## 414	105.300	131.700	131.800	cm	right	left	
## 415	105.400	139.700	140.200	cm	right	right	
## 416	105.600	130.800	131.300	cm	right	right	
## 417	113.750	145.000	144.500	cm	left	right	
## 418	100.500	141.000	140.000	cm	right	right	
## 419	87.630	124.460	126.000	cm	right	right	
## 420	101.500	123.190	NA	cm	left	left	
## 421	110.750	133.350	135.890	cm	right	right	
## 422	96.000	120.650	121.920	cm	right	right	
## 423	82.000	99.060	99.695	cm	right	right	
## 424	107.500	134.620	133.350	cm	right	right	
## 425	114.000	134.620	133.350	cm	right	right	
## 426	98.500	126.365	127.000	cm	right	right	
## 427	98.500	126.365	127.000	cm	right	right	
## 428	98.500	126.365	127.000	cm	right	right	
##	eye_color	swinging	age	gender	quality	minutes	ethnicity
## 1	blue	right	21	F	10.0	1.500000e+01	white
## 2	brown	right	22	M	7.0	2.200000e+01	Hispanic
## 3	brown	left	23	M	9.0	1.500000e+01	black
## 4	blue	right	23	F	8.0	1.500000e+01	white
## 5	blue	left	23	F	9.0	1.100000e+01	white
## 6	hazel	right	63	M	9.0	1.700000e+01	white
## 7	blue	right	59	F	10.0	1.300000e+01	white
## 8	brown	right	23	M	8.0	1.900000e+01	white
## 9	brown	right	20	F	9.0	1.400000e+01	white
## 10	blue	right	26	F	7.0	1.500000e+01	white
## 11	blue	right	21	F	10.0	1.500000e+01	white
## 12	brown	right	22	M	7.0	2.200000e+01	Hispanic
## 13	brown	left	23	M	9.0	1.500000e+01	black
## 14	blue	right	23	F	8.0	1.500000e+01	white
## 15	blue	left	23	F	9.0	1.100000e+01	white
## 16	hazel	right	63	M	9.0	1.700000e+01	white
## 17	blue	right	59	F	10.0	1.300000e+01	white
## 18	brown	right	23	M	8.0	1.900000e+01	white
## 19	brown	right	20	F	9.0	1.400000e+01	white
## 20	blue	right	26	F	7.0	1.500000e+01	white
## 21	blue	right	87	female	7.0	3.500000e+01	white
## 22	blue	left	30	male	8.0	3.600000e+01	white
## 23	blue	left	60	female	10.0	4.000000e+01	white
## 24	brown	right	20	female	10.0	3.000000e+01	laotian
## 25	green	left	47	female	8.0	3.000000e+01	white
## 26	brown	left	22	female	10.0	3.000000e+01	african american
## 27	blue	left	26	male	8.0	1.400000e+01	white
## 28	blue	left	27	female	8.0	1.000000e+01	white
## 29	blue	left	26	male	10.0	2.200000e+01	white
## 30	blue	left	61	female	10.0	1.600000e+01	white
## 31	blue/green	right	38	male	9.0	3.200000e+01	white
## 32	blue	left	5	female	9.0	1.500000e+01	white
## 33	brown	right	7	female	8.0	1.700000e+01	white
## 34	hazel	right	36	male	9.0	2.000000e+01	white
## 35	green	left	36	female	9.0	1.500000e+01	white
## 36	hazel	left	6	female	10.0	1.200000e+01	white
## 37	brown	right	11	female	10.0	1.200000e+01	white

## 38	brown	right	35	female	10.0	1.400000e+01	white
## 39	blue	right	52	female	7.0	2.200000e+01	white
## 40	green	right	59	male	9.0	1.500000e+01	white
## 41	blue	right	57	female	9.0	1.500000e+01	white
## 42	blue/green	right	38	male	9.0	3.200000e+01	white
## 43	blue	left	5	female	9.0	1.500000e+01	white
## 44	brown	right	7	female	8.0	1.700000e+01	white
## 45	hazel	right	36	male	9.0	2.000000e+01	white
## 46	green	left	36	female	9.0	1.500000e+01	white
## 47	hazel	left	6	female	10.0	1.200000e+01	white
## 48	brown	right	11	female	10.0	1.200000e+01	white
## 49	brown	right	35	female	10.0	1.400000e+01	white
## 50	blue	right	52	female	7.0	2.200000e+01	white
## 51	green	right	59	male	9.0	1.500000e+01	white
## 52	blue	right	57	female	9.0	1.500000e+01	white
## 53	blue/green	right	38	male	9.0	3.200000e+01	white
## 54	blue	left	5	female	9.0	1.500000e+01	white
## 55	brown	right	7	female	8.0	1.700000e+01	white
## 56	hazel	right	36	male	9.0	2.000000e+01	white
## 57	green	left	36	female	9.0	1.500000e+01	white
## 58	hazel	left	6	female	10.0	1.200000e+01	white
## 59	brown	right	11	female	10.0	1.200000e+01	white
## 60	brown	right	35	female	10.0	1.400000e+01	white
## 61	blue	right	52	female	7.0	2.200000e+01	white
## 62	green	right	59	male	9.0	1.500000e+01	white
## 63	blue	right	57	female	9.0	1.500000e+01	white
## 64	blue/green	right	38	male	9.0	3.200000e+01	white
## 65	blue	left	5	female	9.0	1.500000e+01	white
## 66	brown	right	7	female	8.0	1.700000e+01	white
## 67	hazel	right	36	male	9.0	2.000000e+01	white
## 68	green	left	36	female	9.0	1.500000e+01	white
## 69	hazel	left	6	female	10.0	1.200000e+01	white
## 70	brown	right	11	female	10.0	1.200000e+01	white
## 71	brown	right	35	female	10.0	1.400000e+01	white
## 72	blue	right	52	female	7.0	2.200000e+01	white
## 73	green	right	59	male	9.0	1.500000e+01	white
## 74	blue	right	57	female	9.0	1.500000e+01	white
## 75	blue	left	47	male	10.0	2.300000e+01	white
## 76	brown	right	22	male	10.0	1.500000e+01	white
## 77	brown	right	23	male	8.0	2.000000e+01	white
## 78	green	right	20	female	7.0	1.500000e+01	white
## 79	brown	right	52	female	7.0	2.000000e+01	white
## 80	brown	right	61	male	8.0	1.200000e+01	white
## 81	brown	right	25	male	5.0	1.000000e+01	white
## 82	blue	left	23	female	5.0	1.500000e+01	hispanic
## 83	brown	left	26	male	6.0	1.000000e+01	white
## 84	brown	right	22	male	7.0	1.000000e+01	white
## 85	hazel	right	21	male	10.0	2.450000e+01	caucasian
## 86	blue	right	20	female	10.0	1.000000e+01	white
## 87	left	right	23	male	10.0	9.000000e+00	chinese
## 88	brown	right	21	male	5.0	3.000000e+01	asian
## 89	blue	right	54	male	9.0	9.000000e+00	anglo
## 90	hazel	right	61	female	9.0	1.100000e+01	caucasian
## 91	green	right	20	female	7.0	2.000000e+01	caucasian

## 92	green	right	22	male	10.0	1.550000e+01	caucasian
## 93	green	right	23	male	8.0	2.000000e+01	caucasian
## 94	blue	right	25	male	8.0	2.000000e+01	caucasian
## 95	blue	right	57	female	9.0	4.500000e+01	caucasian
## 96	blue	right	57	male	9.0	4.500000e+01	caucasian
## 97	blue	right	35	M	10.0	1.500000e+01	White Non-Hispanic
## 98	blue	right	32	F	10.0	2.000000e+00	White Non-Hispanic
## 99	blue	right	4	M	9.0	3.000000e+00	White Non-Hispanic
## 100	blue	both	1	F	6.0	1.000000e+01	White Non-Hispanic
## 101	hazel	right	63	F	10.0	3.000000e+00	White Non-Hispanic
## 102	blue	left	68	M	10.0	3.000000e+00	White Non-Hispanic
## 103	blue	right	34	F	10.0	2.000000e+00	White Non-Hispanic
## 104	brown	right	46	M	10.0	2.000000e+00	White Non-Hispanic
## 105	blue	right	84	F	10.0	4.000000e+00	White Non-Hispanic
## 106	blue	right	88	M	10.0	4.000000e+00	White Non-Hispanic
## 107	blue	right	21	male	9.0	1.900000e+01	white
## 108	green	right	21	female	8.0	1.200000e+01	white
## 109	brown	right	21	male	8.0	1.500000e+01	white
## 110	blue	right	21	male	9.0	5.000000e+00	white
## 111	brown	right	45	female	7.0	6.000000e+00	white
## 112	brown	right	38	female	9.0	5.000000e+00	white
## 113	brown	right	41	female	10.0	4.000000e+00	white
## 114	brown	right	45	male	8.0	8.000000e+00	white
## 115	green	right	21	male	9.0	3.000000e+00	white
## 116	brown	right	21	female	8.0	5.000000e+00	hispanic
## 117	Brown	Left	46	M	7.0	2.000000e+01	White
## 118	Brown	Right	44	F	7.0	2.300000e+01	Japanese
## 119	Blue	Right	17	F	6.0	1.900000e+01	Japanese
## 120	Brown	Left	14	M	6.0	2.000000e+01	White
## 121	Brown	Left	12	M	6.0	2.500000e+01	White
## 122	Brown	Left	11	M	6.0	2.200000e+01	White
## 123	Brown	Right	27	M	7.0	4.000000e+01	White
## 124	Brown	Right	41	M	7.0	4.500000e+01	Native American
## 125	Brown	Left	27	F	7.0	2.200000e+01	Filipino
## 126	Brown	Left	26	M	9.0	1.500000e+01	White
## 127	blue	right	21	male	9.0	1.000000e+01	white
## 128	blue	right	20	male	9.0	1.000000e+01	white
## 129	blue	right	18	male	8.0	1.000000e+01	white
## 130	blue	right	43	female	8.0	1.000000e+01	white
## 131	blue	right	47	male	8.0	1.000000e+01	white
## 132	blue	right	27	male	6.0	1.000000e+01	white
## 133	hazel	right	24	male	7.0	1.000000e+01	white
## 134	brown	right	23	male	9.0	1.100000e+01	Filipino
## 135	brown	right	24	male	8.0	1.400000e+01	white
## 136	green	right	24	male	8.0	1.600000e+01	white
## 137	blue	right	21	male	9.0	1.000000e+01	white
## 138	blue	right	20	male	9.0	1.000000e+01	white
## 139	blue	right	18	male	8.0	1.000000e+01	white
## 140	blue	right	43	female	8.0	1.000000e+01	white
## 141	blue	right	47	male	8.0	1.000000e+01	white
## 142	blue	right	27	male	6.0	1.000000e+01	white
## 143	hazel	right	24	male	7.0	1.000000e+01	white
## 144	brown	right	23	male	9.0	1.100000e+01	Filipino
## 145	brown	right	24	male	8.0	1.400000e+01	white

## 146	green	right	24	male	8.0	1.600000e+01	white
## 147	blue	right	21	male	9.0	1.000000e+01	white
## 148	blue	right	20	male	9.0	1.000000e+01	white
## 149	blue	right	18	male	8.0	1.000000e+01	white
## 150	blue	right	43	female	8.0	1.000000e+01	white
## 151	blue	right	47	male	8.0	1.000000e+01	white
## 152	blue	right	27	male	6.0	1.000000e+01	white
## 153	hazel	right	24	male	7.0	1.000000e+01	white
## 154	brown	right	23	male	9.0	1.100000e+01	Filipino
## 155	brown	right	24	male	8.0	1.400000e+01	white
## 156	green	right	24	male	8.0	1.600000e+01	white
## 157	blue	right	21	male	9.0	1.000000e+01	white
## 158	blue	right	20	male	9.0	1.000000e+01	white
## 159	blue	right	18	male	8.0	1.000000e+01	white
## 160	blue	right	43	female	8.0	1.000000e+01	white
## 161	blue	right	47	male	8.0	1.000000e+01	white
## 162	blue	right	27	male	6.0	1.000000e+01	white
## 163	hazel	right	24	male	7.0	1.000000e+01	white
## 164	brown	right	23	male	9.0	1.100000e+01	Filipino
## 165	brown	right	24	male	8.0	1.400000e+01	white
## 166	green	right	24	male	8.0	1.600000e+01	white
## 167	blue	right	21	male	9.0	1.000000e+01	white
## 168	blue	right	20	male	9.0	1.000000e+01	white
## 169	blue	right	18	male	8.0	1.000000e+01	white
## 170	blue	right	43	female	8.0	1.000000e+01	white
## 171	blue	right	47	male	8.0	1.000000e+01	white
## 172	blue	right	27	male	6.0	1.000000e+01	white
## 173	hazel	right	24	male	7.0	1.000000e+01	white
## 174	brown	right	23	male	9.0	1.100000e+01	Filipino
## 175	brown	right	24	male	8.0	1.400000e+01	white
## 176	green	right	24	male	8.0	1.600000e+01	white
## 177	blue	right	21	male	9.0	1.000000e+01	white
## 178	blue	right	20	male	9.0	1.000000e+01	white
## 179	blue	right	18	male	8.0	1.000000e+01	white
## 180	blue	right	43	female	8.0	1.000000e+01	white
## 181	blue	right	47	male	8.0	1.000000e+01	white
## 182	blue	right	27	male	6.0	1.000000e+01	white
## 183	hazel	right	24	male	7.0	1.000000e+01	white
## 184	brown	right	23	male	9.0	1.100000e+01	Filipino
## 185	brown	right	24	male	8.0	1.400000e+01	white
## 186	green	right	24	male	8.0	1.600000e+01	white
## 187	blue	right	21	male	9.0	1.000000e+01	white
## 188	blue	right	20	male	9.0	1.000000e+01	white
## 189	blue	right	18	male	8.0	1.000000e+01	white
## 190	blue	right	43	female	8.0	1.000000e+01	white
## 191	blue	right	47	male	8.0	1.000000e+01	white
## 192	blue	right	27	male	6.0	1.000000e+01	white
## 193	hazel	right	24	male	7.0	1.000000e+01	white
## 194	brown	right	23	male	9.0	1.100000e+01	Filipino
## 195	brown	right	24	male	8.0	1.400000e+01	white
## 196	green	right	24	male	8.0	1.600000e+01	white
## 197	blue	right	21	male	9.0	1.000000e+01	white
## 198	blue	right	20	male	9.0	1.000000e+01	white
## 199	blue	right	18	male	8.0	1.000000e+01	white

## 200	blue	right	43	female	8.0	1.000000e+01	white
## 201	blue	right	47	male	8.0	1.000000e+01	white
## 202	blue	right	27	male	6.0	1.000000e+01	white
## 203	hazel	right	24	male	7.0	1.000000e+01	white
## 204	brown	right	23	male	9.0	1.100000e+01	Filipino
## 205	brown	right	24	male	8.0	1.400000e+01	white
## 206	green	right	24	male	8.0	1.600000e+01	white
## 207	blue	right	21	male	9.0	1.000000e+01	white
## 208	blue	right	20	male	9.0	1.000000e+01	white
## 209	blue	right	18	male	8.0	1.000000e+01	white
## 210	blue	right	43	female	8.0	1.000000e+01	white
## 211	blue	right	47	male	8.0	1.000000e+01	white
## 212	blue	right	27	male	6.0	1.000000e+01	white
## 213	hazel	right	24	male	7.0	1.000000e+01	white
## 214	brown	right	23	male	9.0	1.100000e+01	Filipino
## 215	brown	right	24	male	8.0	1.400000e+01	white
## 216	green	right	24	male	8.0	1.600000e+01	white
## 217	blue	right	21	male	9.0	1.000000e+01	white
## 218	blue	right	20	male	9.0	1.000000e+01	white
## 219	blue	right	18	male	8.0	1.000000e+01	white
## 220	blue	right	43	female	8.0	1.000000e+01	white
## 221	blue	right	47	male	8.0	1.000000e+01	white
## 222	blue	right	27	male	6.0	1.000000e+01	white
## 223	hazel	right	24	male	7.0	1.000000e+01	white
## 224	brown	right	23	male	9.0	1.100000e+01	Filipino
## 225	brown	right	24	male	8.0	1.400000e+01	white
## 226	green	right	24	male	8.0	1.600000e+01	white
## 227	hazel	right	24	female	10.0	1.200000e+01	caucasian
## 228	brown	right	27	male	10.0	1.500000e+01	caucasian
## 229	brown	right	17	female	10.0	1.300000e+01	caucasian
## 230	brown	right	17	female	10.0	1.100000e+01	caucasian
## 231	blue	right	17	male	10.0	1.200000e+01	caucasian
## 232	hazel	right	51	female	10.0	1.400000e+01	caucasian
## 233	brown	right	28	female	10.0	1.200000e+01	caucasian
## 234	blue	right	30	male	10.0	1.300000e+01	caucasian
## 235	brown	both	3	female	8.0	1.500000e+01	hispanic
## 236	blue	left	19	male	10.0	1.000000e+01	caucasian
## 237	brown	right	11	female	10.0	1.000000e+01	white
## 238	brown	right	17	female	10.0	1.000000e+01	white
## 239	brown	right	41	female	10.0	1.000000e+01	white
## 240	hazel	right	45	male	10.0	1.000000e+01	white
## 241	brown	right	30	female	9.0	1.000000e+01	white
## 242	brown	right	33	male	9.0	1.000000e+01	white
## 243	brown	right	21	female	9.0	1.000000e+01	asian
## 244	brown	right	21	female	9.0	1.000000e+01	white
## 245	hazel	right	27	male	9.0	1.000000e+01	latin american
## 246	black	right	24	male	9.0	1.000000e+01	asian
## 247	Green	Right	31	Female	7.5	1.500000e+01	White
## 248	Hazel	Right	36	Female	8.5	1.000000e+01	White
## 249	Brown	Left	37	Female	8.0	3.000000e+01	White
## 250	Hazel	Right	37	Male	8.0	1.500000e+01	White
## 251	Brown	Right	67	Female	6.0	1.500000e+01	White
## 252	Brown	Right	21	Male	7.0	1.000000e+01	Hispanic
## 253	Blue	Right	9	Female	7.0	1.000000e+01	White

## 254	Hazel	Right	12	Male	7.0	1.000000e+01	White
## 255	Blue	Right	7	Male	7.0	1.000000e+01	White
## 256	Blue	Right	13	Female	8.0	2.000000e+01	White
## 257	Green	Right	31	Female	7.5	1.500000e+01	White
## 258	Hazel	Right	36	Female	8.5	1.000000e+01	White
## 259	Brown	Left	37	Female	8.0	3.000000e+01	White
## 260	Hazel	Right	37	Male	8.0	1.500000e+01	White
## 261	Brown	Right	67	Female	6.0	1.500000e+01	White
## 262	Brown	Right	21	Male	7.0	1.000000e+01	Hispanic
## 263	Blue	Right	9	Female	7.0	1.000000e+01	White
## 264	Hazel	Right	12	Male	7.0	1.000000e+01	White
## 265	Blue	Right	7	Male	7.0	1.000000e+01	White
## 266	Blue	Right	13	Female	8.0	2.000000e+01	White
## 267	Green	Right	31	Female	7.5	1.500000e+01	White
## 268	Hazel	Right	36	Female	8.5	1.000000e+01	White
## 269	Brown	Left	37	Female	8.0	3.000000e+01	White
## 270	Hazel	Right	37	Male	8.0	1.500000e+01	White
## 271	Brown	Right	67	Female	6.0	1.500000e+01	White
## 272	Brown	Right	21	Male	7.0	1.000000e+01	Hispanic
## 273	Blue	Right	9	Female	7.0	1.000000e+01	White
## 274	Hazel	Right	12	Male	7.0	1.000000e+01	White
## 275	Blue	Right	7	Male	7.0	1.000000e+01	White
## 276	Blue	Right	13	Female	8.0	2.000000e+01	White
## 277	hazel	right	29	male	10.0	2.200000e+01	white
## 278	hazel	right	57	female	9.0	1.800000e+01	white
## 279	hazel	right	50	male	10.0	1.500000e+01	white
## 280	hazel	right	24	male	9.0	1.600000e+01	white
## 281	blue-green	right	23	female	10.0	1.400000e+01	white
## 282	hazel	left	23	male	10.0	1.300000e+01	white
## 283	brown	right	21	male	8.0	2.000000e+01	white-filipino
## 284	blue	right	56	male	9.0	1.400000e+01	white
## 285	brown	right	56	female	9.0	1.500000e+01	white
## 286	hazel	right	17	male	9.0	1.600000e+01	white
## 287	hazel	right	29	male	10.0	2.200000e+01	white
## 288	hazel	right	57	female	9.0	1.800000e+01	white
## 289	hazel	right	50	male	10.0	1.500000e+01	white
## 290	hazel	right	24	male	9.0	1.600000e+01	white
## 291	blue-green	right	23	female	10.0	1.400000e+01	white
## 292	hazel	left	23	male	10.0	1.300000e+01	white
## 293	brown	right	21	male	8.0	2.000000e+01	white-filipino
## 294	blue	right	56	male	9.0	1.400000e+01	white
## 295	brown	right	56	female	9.0	1.500000e+01	white
## 296	hazel	right	17	male	9.0	1.600000e+01	white
## 297	blue	right	28	female	10.0	2.000000e+01	white
## 298	brown	right	27	male	10.0	2.400000e+01	white
## 299	blue	right	61	female	10.0	2.600000e+01	white
## 300	blue	right	61	male	10.0	2.300000e+01	white
## 301	brown	right	54	female	10.0	2.000000e+01	white
## 302	hazel	right	55	male	9.0	1.800000e+01	white
## 303	hazel	right	63	female	9.0	2.200000e+01	white
## 304	hazel	right	28	female	9.0	2.100000e+01	white
## 305	hazel	right	27	male	10.0	2.500000e+01	white
## 306	blue	right	36	female	8.0	2.100000e+01	white
## 307	brown	right	23	male	10.0	1.500000e+01	Asain

## 308	brown	right	25	female	10.0	1.800000e+01	Asain
## 309	brown	left	50	female	10.0	2.000000e+01	Asain
## 310	brown	let	94	female	10.0	1.900000e+01	Asain
## 311	brown	right	72	female	9.0	2.300000e+01	Asain
## 312	black	right	72	male	9.0	1.500000e+01	Asain
## 313	brown	leftt	76	female	9.0	1.600000e+01	Asain
## 314	brown	left	68	female	9.0	1.500000e+01	Asain
## 315	black	right	75	male	9.0	1.900000e+01	Asain
## 316	brown	right	77	male	9.0	2.100000e+01	Asain
## 317	brown	right	27	male	9.0	1.600000e+01	white
## 318	brown	left	58	female	10.0	1.400000e+01	white
## 319	blue	right	52	male	8.0	2.100000e+01	white
## 320	blue	right	53	female	10.0	1.900000e+01	white
## 321	hazel	right	60	male	9.0	1.500000e+01	white
## 322	blue	right	61	female	10.0	1.700000e+01	white
## 323	blue	right	68	female	10.0	1.500000e+01	white
## 324	brown	right	69	male	7.0	1.900000e+01	white
## 325	blue	right	11	male	10.0	2.100000e+01	white
## 326	hazel	right	30	male	10.0	1.200000e+01	white
## 327	brown	right	62	f	8.0	2.500000e+01	korean
## 328	brown	right	68	m	8.0	2.500000e+01	korean
## 329	blue	right	36	m	8.0	1.000000e+01	white
## 330	green	right	42	f	8.0	1.000000e+01	white
## 331	brown	right	33	f	6.0	1.500000e+01	korean
## 332	brown	right	34	m	6.0	1.500000e+01	white
## 333	brown	right	36	m	9.0	2.000000e+01	indian
## 334	brown	right	38	f	8.0	1.000000e+01	korean
## 335	hazel	left	40	m	8.0	1.500000e+01	white
## 336	brown	right	31	m	7.0	1.000000e+01	korean
## 337	brown	left	23	male	10.0	9.500000e+00	Caucasian/Asian
## 338	brown	left	23	female	9.0	9.750000e+00	Asian
## 339	brown	left	31	male	8.0	1.325000e+01	Asian
## 340	brown	right	60	male	7.0	2.700000e+01	Asian
## 341	brown	left	52	female	7.0	2.500000e+01	Asian
## 342	blue	left	64	male	8.0	1.950000e+01	Caucasian
## 343	brown	left	47	female	8.0	2.600000e+01	Asian
## 344	brown	right	25	male	9.0	2.475000e+01	Caucasian/Asian
## 345	brown	left	22	female	7.0	2.500000e+01	Caucasian/Asian
## 346	brown	left	17	female	10.0	1.700000e+01	Caucasian/Asian
## 347	"brown"	"right"	25	"male"	9.0	NA	"caucasian"
## 348	"brown"	"right"	26	"male"	8.0	1.700000e+01	"asian"
## 349	"green"	"right"	27	"female"	8.0	1.500000e+01	"caucasian"
## 350	"brown"	"right"	28	"male"	8.0	1.500000e+01	"asian/latino"
## 351	"blue"	"right"	58	"female"	9.0	NA	"caucasian"
## 352	"brown"	"right"	26	"female"	8.0	1.700000e+01	"asian/latino"
## 353	"blue"	"right"	24	"female"	9.0	NA	"caucasian"
## 354	"blue"	"right"	28	"male"	9.0	1.850000e+01	"caucasian"
## 355	"brown"	"right"	59	"male"	9.0	NA	"caucasian"
## 356	"brown"	"right"	28	"female"	9.0	1.850000e+01	"caucasian"
## 357	brown	right	21	female	10.0	1.800000e+01	white
## 358	grey-green	right	22	female	9.0	2.000000e+01	white
## 359	grey	right	58	female	9.0	1.900000e+01	white
## 360	blue-green	right	17	female	9.0	1.800000e+01	white
## 361	blue-green	right	51	female	9.0	1.800000e+01	white

## 362	blue-grey	right	53	male	9.0	1.900000e+01	white
## 363	brown	right	21	female	9.0	2.000000e+01	white
## 364	brown	right	55	female	10.0	1.500000e+01	white
## 365	blue	right	56	male	10.0	1.600000e+01	white
## 366	brown	right	22	male	9.0	2.000000e+01	asian
## 367	brown	right	28	female	10.0	1.000000e+01	asian
## 368	brown	right	38	male	10.0	1.000000e+01	white
## 369	brown	right	28	female	7.0	1.500000e+01	asian
## 370	green	right	29	male	7.0	1.500000e+01	white
## 371	brown	right	63	female	7.0	1.200000e+01	asian
## 372	blue	right	32	male	8.0	9.000000e+00	white
## 373	brown	right	29	female	6.0	8.000000e+00	white
## 374	brown	right	48	female	7.0	1.000000e+01	hispanic
## 375	brown	right	55	female	7.0	1.000000e+01	pacific islander
## 376	hazel	right	39	female	6.0	1.000000e+01	hispanic
## 377	Brown	right	22	male	10.0	2.400000e+01	African American
## 378	Brown	right	11	female	9.0	2.000000e+01	African American
## 379	Brown	left	13	male	9.0	1.700000e+01	African American
## 380	Brown	right	17	male	8.0	1.600000e+01	African American
## 381	Brown	left	14	male	10.0	2.700000e+01	African American
## 382	Brown	right	22	male	9.0	2.600000e+01	Asian
## 383	Brown	left	21	male	10.0	1.600000e+01	Caucasian
## 384	Brown	right	22	female	10.0	1.900000e+01	Caucasian
## 385	Blue	left	13	female	8.0	2.200000e+01	African American
## 386	Brown	right	19	male	10.0	1.500000e+01	Asian
## 387	blue	right	21	male	9.0	8.000000e+00	white
## 388	blue	right	25	male	7.0	1.100000e+01	white
## 389	brown	left	25	male	7.0	1.000000e+01	latino
## 390	grey	right	23	male	8.0	1.200000e+01	white
## 391	blue	right	21	male	7.0	1.300000e+01	white
## 392	brown	right	20	male	6.0	1.400000e+01	white
## 393	blue	right	55	male	6.0	1.100000e+01	white
## 394	green	left	53	female	6.0	1.200000e+01	white
## 395	brown	right	20	non-binary	6.0	1.200000e+01	asian
## 396	brown	right	26	male	5.0	1.000000e+01	asian
## 397	hazel	right	28	male	9.0	1.600000e+01	white
## 398	blue	right	25	male	10.0	1.200000e+01	white
## 399	blue	right	24	male	7.0	1.400000e+01	white
## 400	hazel	right	50	female	8.0	1.000000e+01	white
## 401	blue	right	52	male	8.0	1.100000e+01	white
## 402	blue	right	29	female	8.0	1.300000e+01	native american
## 403	brown	right	21	male	9.0	7.000000e+00	white
## 404	brown	right	27	female	10.0	1.000000e+01	white italian
## 405	brown	right	32	male	10.0	1.000000e+01	japanese italian
## 406	brown	right	25	female	8.0	1.200000e+01	white
## 407	blue	left	22	female	10.0	-2.209021e+09	caucasain
## 408	blue	right	25	female	8.0	-2.209034e+09	caucasain
## 409	brown	right	25	female	7.0	-2.209044e+09	caucasain
## 410	blue	right	55	female	9.0	-2.209024e+09	caucasain
## 411	blue	right	55	male	9.0	-2.209040e+09	caucasain
## 412	brown	right	22	female	8.0	-2.209031e+09	caucasain
## 413	green	right	22	female	8.0	-2.209045e+09	caucasain
## 414	brown	right	21	female	8.0	-2.209039e+09	caucasain
## 415	blue	right	25	female	7.0	-2.209042e+09	caucasain

## 416	hazel	left	26	female	7.0	-2.209038e+09	caucasain
## 417	green	left	53	male	9.5	NA	white
## 418	blue	both	53	male	10.0	2.000000e+01	white
## 419	brown	right	49	female	9.5	1.500000e+01	asian
## 420	brown	left	20	female	9.5	1.800000e+01	asian
## 421	blue	right	40	male	9.5	NA	white
## 422	blue	right	11	female	9.0	NA	white
## 423	blue	right	7	male	9.5	NA	white
## 424	green	right	43	male	8.0	NA	white
## 425	blue	right	42	female	8.0	NA	white
## 426	blue	right	13	female	8.0	NA	white
## 427	blue	right	13	female	8.0	NA	white
## 428	blue	right	13	female	8.0	NA	white
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## 126	
## 127	oldest son of 1b83d5da74032b6a75
## 128	Middle son of 1b83d5da74032b6a75
## 129	Youngest son of 1b83d5da74032b6a75
## 130	Mother of ba092f0aca4ee5d510274c706a8f336a, 6e49f3355a5580b6386
## 131	Father of ba092f0aca4ee5d510274c706a8f336a, 6e49f3355a5580b63
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## 137	oldest son of 1b83d5da74032b6a75
## 138	Middle son of 1b83d5da74032b6a75
## 139	Youngest son of 1b83d5da74032b6a75
## 140	Mother of ba092f0aca4ee5d510274c706a8f336a, 6e49f3355a5580b6386
## 141	Father of ba092f0aca4ee5d510274c706a8f336a, 6e49f3355a5580b63
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## 147	oldest son of 1b83d5da74032b6a75
## 148	Middle son of 1b83d5da74032b6a75

## 149		Youngest son of 1b83d5da74032b6a75
## 150	Mother of ba092f0aca4ee5d510274c706a8f336a, 6e49f3355a5580b6386	
## 151	Father of ba092f0aca4ee5d510274c706a8f336a, 6e49f3355a5580b63	
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## 157		oldest son of 1b83d5da74032b6a75
## 158		Middle son of 1b83d5da74032b6a75
## 159		Youngest son of 1b83d5da74032b6a75
## 160	Mother of ba092f0aca4ee5d510274c706a8f336a, 6e49f3355a5580b6386	
## 161	Father of ba092f0aca4ee5d510274c706a8f336a, 6e49f3355a5580b63	
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## 167		oldest son of 1b83d5da74032b6a75
## 168		Middle son of 1b83d5da74032b6a75
## 169		Youngest son of 1b83d5da74032b6a75
## 170	Mother of ba092f0aca4ee5d510274c706a8f336a, 6e49f3355a5580b6386	
## 171	Father of ba092f0aca4ee5d510274c706a8f336a, 6e49f3355a5580b63	
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## 177		oldest son of 1b83d5da74032b6a75
## 178		Middle son of 1b83d5da74032b6a75
## 179		Youngest son of 1b83d5da74032b6a75
## 180	Mother of ba092f0aca4ee5d510274c706a8f336a, 6e49f3355a5580b6386	
## 181	Father of ba092f0aca4ee5d510274c706a8f336a, 6e49f3355a5580b63	
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## 187		oldest son of 1b83d5da74032b6a75
## 188		Middle son of 1b83d5da74032b6a75
## 189		Youngest son of 1b83d5da74032b6a75
## 190	Mother of ba092f0aca4ee5d510274c706a8f336a, 6e49f3355a5580b6386	
## 191	Father of ba092f0aca4ee5d510274c706a8f336a, 6e49f3355a5580b63	
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## 198		Middle son of 1b83d5da74032b6a75
## 199		Youngest son of 1b83d5da74032b6a75
## 200	Mother of ba092f0aca4ee5d510274c706a8f336a, 6e49f3355a5580b6386	
## 201	Father of ba092f0aca4ee5d510274c706a8f336a, 6e49f3355a5580b63	
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 ## 209 Youngest son of 1b83d5da74032b6a75
 ## 210 Mother of ba092f0aca4ee5d510274c706a8f336a, 6e49f3355a5580b6386
 ## 211 Father of ba092f0aca4ee5d510274c706a8f336a, 6e49f3355a5580b63
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 ## 218 Middle son of 1b83d5da74032b6a75
 ## 219 Youngest son of 1b83d5da74032b6a75
 ## 220 Mother of ba092f0aca4ee5d510274c706a8f336a, 6e49f3355a5580b6386
 ## 221 Father of ba092f0aca4ee5d510274c706a8f336a, 6e49f3355a5580b63
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 ## 227 possible
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 ## 229 possible ancestry
 ## 230 possible ancestry
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 ## 233 possible
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 ## 235 possible ancestry may include: majority Guatemalan, very young so has not established a dominant
 ## 236 possible
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white :

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possible ancestry may include: Taiwanese,
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## 311	possible ancestry may include: Taiwanese,
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## 315	possible ancestry may include: Taiwanese,
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## 357	white european, I gave a
## 358	white european, I gave a 9 on quality because I did not do the measurement
## 359	white european, I gave a 9 on quality because I did not do the measurement
## 360	white european, I gave a 9 on quality because I did not do the measurement
## 361	white european, I gave a 9 on quality because I did not do the measurement
## 362	white european, I gave a 9 on quality because I did not do the measurement
## 363	white european, I gave a 9 on quality because I did not do the measurement
## 364	white european, I gave a

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## 365                                     white european, I gave a
## 366 vietnamese, I gave a 9 on quality because I did not do the measurement
## 367
## 368                                     possible ancestry may :
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## 380                                     possible ancestry may include: E
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## 413                                     possible ancers
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## 415                                     possible ancerstry may
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```
set.seed(12222015);
measure.example = measure[ sample(1:nrow(measure), 22), ];

measure.example;
```

```
##              data_collector              person_id  side
## 259 411f8b5c9500b7cc928c93dd1a0006b7 1c2408654ef5a2fe1fc96208D879E889 left
## 74  fd36e2b3ec59dbd996587454cbb59725 7aa407c589c49ea3aa49224367f9aad8 left
## 241 a7380c7fdd4f9c977a007c003e42deb8 dee1225ded7171820b3b974f86164a65 right
## 44  fd36e2b3ec59dbd996587454cbb59725 02fd0c9a5c0a52e64e487541c668dbb8 left
## 369 86687ae28f9bf74f509bc9cff3e967fe 8545c7da3bff6d5e778c19a8e759e351 right
## 32  fd36e2b3ec59dbd996587454cbb59725 e4a78a4c43790b174d1132cc72ff8829 left
## 184 2c5b39a808b670a7b171c60720597672 61409aa1fd47d4a5332de23cbf59a36f <NA>
## 303 58056c4dc037cb0dbba1ad30215034da b08ccacdf72360c9419bed8e73f81fab left
## 326 58056c4dc037cb0dbba1ad30215034da 7a7ad17163012c8f04322273aebfe886 left
## 277 00b0bc50a5d4c23ebdac6e69cebf284d cb216e6502316d1466d79b4a18b540cf right
## 375 86687ae28f9bf74f509bc9cff3e967fe 39a76aa6cff34621da972e912ea7437f right
## 312 e7f9de8678dd0388865077403567b45c 49f34c755408a89228f78967771c175f right
## 91  5a2f371a934f22dffcf1e994cb6eca40 19e7e29d12d3eec6776a993acdfca999 right
## 62  fd36e2b3ec59dbd996587454cbb59725 08982a644b08fcabe920861dcf638039 left
## 287 00b0bc50a5d4c23ebdac6e69cebf284d cb216e6502316d1466d79b4a18b540cf right
## 192 5770652f70c497804729efd7db532dbb 24dbc2b917472b089a5052b23f11f30f <NA>
## 86  5a2f371a934f22dffcf1e994cb6eca40 04b2eeaf9dcd75f5fcaeec08f76603f2 right
## 333 7e6e6a69493f1d54a74ecdd4058ebadf a8e17797adc14c4a0d5e471e1c51e978 left
## 331 7e6e6a69493f1d54a74ecdd4058ebadf 7b57fe76c35503b0a477d287ea00b37f left
## 247 411f8b5c9500b7cc928c93dd1a0006b7 1c2408654ef5a2fe1fc96208F7E65151 left
## 66  fd36e2b3ec59dbd996587454cbb59725 02fd0c9a5c0a52e64e487541c668dbb8 left
## 78  c51267de031fb6d879a8abf25d260269 5416d60fcbda9d702ccbcee046a3e7cb right
##      height.NA head.height.NA head.circumference.NA hand.length.left
## 259      71.00          9.500              22.000              8.000
## 74      62.25           8.750              22.375              6.750
## 241     167.00         22.000              55.000             20.000
## 44      47.75           7.000              19.250              5.250
## 369     160.00         22.000              61.000             17.500
## 32      44.75           6.500              19.500              4.875
## 184     180.00         29.500              59.000             19.000
## 303      63.00          8.330              20.500              7.000
## 326      72.50          8.250              22.750              7.500
## 277     180.50         26.500              60.500             21.500
## 375     167.70         31.000              57.600             21.000
## 312     168.00         28.000              53.000             19.000
## 91      170.00         27.000              56.000             17.500
## 62      70.50          9.125              22.875              8.000
```

## 287	180.50	26.500	60.500	21.500
## 192	190.00	24.000	58.000	21.500
## 86	166.50	20.500	53.500	18.000
## 333	173.00	20.000	21.500	18.500
## 331	158.00	20.500	57.000	16.500
## 247	62.50	9.000	21.750	6.500
## 66	47.75	7.000	19.250	5.250
## 78	161.00	18.000	51.000	16.000
##	hand.length.right	hand.width.left	hand.width.right	hand.elbow.left
## 259	8.000	8.000	7.750	17.500
## 74	6.875	8.000	8.125	16.875
## 241	20.000	20.000	20.000	45.000
## 44	5.125	5.875	6.000	12.500
## 369	16.900	20.000	19.000	35.800
## 32	5.000	5.500	5.500	11.250
## 184	18.500	NA	NA	52.000
## 303	7.000	7.250	7.330	16.100
## 326	7.500	8.000	8.000	19.250
## 277	21.500	24.500	24.000	47.000
## 375	21.400	22.000	22.200	46.000
## 312	19.000	19.500	21.000	43.000
## 91	18.000	20.000	21.000	45.000
## 62	8.000	8.375	8.375	19.125
## 287	21.500	24.500	24.000	47.000
## 192	21.500	NA	NA	48.000
## 86	18.000	19.000	19.000	40.500
## 333	18.000	19.500	19.500	47.500
## 331	17.000	20.000	19.000	41.000
## 247	6.750	6.750	6.750	14.750
## 66	5.125	5.875	6.000	12.500
## 78	16.000	20.000	20.000	41.000
##	hand.elbow.right	elbow.arpit.left	elbow.arpit.right	arm.reach.left
## 259	17.500	9.00	9.50	59.00
## 74	17.125	11.50	11.75	79.00
## 241	45.000	31.00	31.00	212.00
## 44	12.750	8.50	8.50	57.50
## 369	36.000	26.00	26.00	198.10
## 32	11.000	7.25	7.00	54.00
## 184	52.500	32.50	32.50	66.00
## 303	16.000	9.25	9.00	80.25
## 326	19.500	13.50	13.50	93.50
## 277	47.000	28.00	28.00	233.00
## 375	47.100	19.60	21.00	212.00
## 312	44.500	21.00	22.00	215.00
## 91	45.000	21.00	21.00	210.00
## 62	19.250	12.50	12.00	88.50
## 287	47.000	28.00	28.00	233.00
## 192	48.000	29.00	29.00	NA
## 86	40.500	25.50	25.50	205.50
## 333	44.500	30.50	30.50	84.00
## 331	40.000	21.00	22.00	198.00
## 247	15.000	6.50	6.50	79.25
## 66	12.750	8.50	8.50	57.50
## 78	41.000	26.00	27.00	135.00

##	arm.reach.right	arm.span.NA	foot.length.left	foot.length.right		
## 259	59.000	74.000	9.50	9.75		
## 74	79.375	63.250	9.50	9.25		
## 241	212.000	171.000	26.00	26.00		
## 44	57.000	46.250	7.25	7.50		
## 369	197.800	157.500	22.00	22.00		
## 32	54.500	43.125	6.25	6.50		
## 184	66.000	171.000	26.00	26.00		
## 303	80.330	62.250	9.00	9.00		
## 326	93.250	73.500	11.25	11.00		
## 277	234.000	181.500	28.50	28.50		
## 375	213.000	168.900	25.70	26.00		
## 312	213.000	177.000	25.00	25.00		
## 91	212.000	174.000	24.00	24.00		
## 62	88.000	72.125	10.25	10.25		
## 287	234.000	181.500	28.50	28.50		
## 192	NA	173.000	30.00	30.00		
## 86	206.500	164.000	23.00	23.00		
## 333	84.000	179.000	26.50	26.50		
## 331	199.000	166.000	24.00	23.00		
## 247	79.500	59.750	9.50	9.50		
## 66	57.000	46.250	7.25	7.50		
## 78	135.000	193.000	22.50	22.50		
##	floor.kneepit.left	floor.kneepit.right	floor.hip.left	floor.hip.right		
## 259	17.500	17.500	41.00	41.000		
## 74	17.000	17.125	37.50	37.875		
## 241	50.000	50.000	102.00	102.000		
## 44	12.500	12.375	27.25	27.000		
## 369	41.000	41.000	91.00	91.000		
## 32	12.875	13.000	25.75	25.500		
## 184	51.000	51.000	NA	NA		
## 303	17.000	17.000	34.10	34.250		
## 326	19.000	19.000	41.50	41.000		
## 277	44.000	44.000	100.50	100.500		
## 375	50.000	51.000	94.00	95.100		
## 312	47.000	47.000	94.00	93.000		
## 91	42.000	42.000	94.00	94.000		
## 62	19.750	19.626	42.25	41.875		
## 287	44.000	44.000	100.50	100.500		
## 192	50.000	50.000	NA	NA		
## 86	44.000	44.500	100.50	101.000		
## 333	45.500	45.500	101.50	100.000		
## 331	40.500	40.000	84.50	85.000		
## 247	15.500	15.500	35.00	35.000		
## 66	12.500	12.375	27.25	27.000		
## 78	40.500	40.500	88.00	88.000		
##	floor.navel.NA	floor.armpit.left	floor.armpit.right	units	writing	eye
## 259	42.000	55.000	55.00	in	Left	Left
## 74	37.750	52.250	52.00	inches	right	left
## 241	105.000	130.000	130.00	cm	right	right
## 44	27.625	35.500	35.50	inches	right	left
## 369	94.000	119.400	120.00	cm	right	left
## 32	25.875	35.000	35.00	inches	left	right
## 184	140.000	140.000	100.00	cm	right	right

## 303	34.500	50.875	50.75	in	right	right
## 326	42.500	59.250	59.00	inches	right	right
## 277	103.500	142.500	142.50	cm	right	left
## 375	98.100	133.000	134.00	cm	right	equal
## 312	97.000	130.000	130.00	cm	right	right
## 91	99.000	130.000	130.00	cm	right	left
## 62	40.750	57.750	57.00	inches	right	right
## 287	103.500	142.500	142.50	cm	right	left
## 192	143.000	143.000	NA	cm	right	right
## 86	99.000	136.000	134.50	cm	right	right
## 333	104.000	127.000	127.00	cm	right	right
## 331	90.000	130.000	130.00	cm	right	left
## 247	37.000	46.750	47.00	in	Right	Right
## 66	27.625	35.500	35.50	inches	right	left
## 78	96.500	120.000	120.00	cm	right	right
##	eye_color	swinging	age	gender	quality	minutes
## 259	Brown	Left	37	Female	8.0	30
## 74	blue	right	57	female	9.0	15
## 241	brown	right	30	female	9.0	10
## 44	brown	right	7	female	8.0	17
## 369	brown	right	28	female	7.0	15
## 32	blue	left	5	female	9.0	15
## 184	brown	right	23	male	9.0	11
## 303	hazel	right	63	female	9.0	22
## 326	hazel	right	30	male	10.0	12
## 277	hazel	right	29	male	10.0	22
## 375	brown	right	55	female	7.0	10
## 312	black	right	72	male	9.0	15
## 91	green	right	20	female	7.0	20
## 62	green	right	59	male	9.0	15
## 287	hazel	right	29	male	10.0	22
## 192	blue	right	27	male	6.0	10
## 86	blue	right	20	female	10.0	10
## 333	brown	right	36	m	9.0	20
## 331	brown	right	33	f	6.0	15
## 247	Green	Right	31	Female	7.5	15
## 66	brown	right	7	female	8.0	17
## 78	green	right	20	female	7.0	15
##						notes
## 259						English and Russian
## 74						has some native american
## 241						afghan
## 44						a bit wiggly
## 369						possible ancestry may include: korean
## 32						Very good subject to measure
## 184						Gathered from online friend
## 303						<NA>
## 326						<NA>
## 277						possible ancestry may include: german, english
## 375						possible ancestry may include: samoan, german
## 312						possible ancestry may include: Taiwanese, Austronesian peoples.
## 91						<NA>
## 62						<NA>
## 287						possible ancestry may include: german, english

```
## 192                                Gathered from online friend
## 86                                german, norwegian
## 333                                converted from inches
## 331                                <NA>
## 247                                none
## 66                                a bit wiggly
## 78                                australian ancestry
```

Default summary

```
measure.example$data_collector = factor(measure.example$data_collector);
measure.example$person_id = factor(measure.example$person_id);
measure.example$writing = factor(tolower(measure.example$writing));
measure.example$eye = factor(tolower(measure.example$eye));
measure.example$`eye_color` = factor(tolower(measure.example$`eye_color`));
measure.example$ethnicity = factor(tolower(measure.example$ethnicity));
measure.example$gender = factor(tolower(measure.example$gender));
measure.example$gender[measure.example$gender=="f"] = "female";
measure.example$gender[measure.example$gender=="m"] = "male";

measure.example$swinging = factor(tolower(measure.example$swinging));
measure.example$side = factor(tolower(measure.example$side));

measure.example$units = factor(tolower(measure.example$units));
measure.example$units[measure.example$units=="inches"] = "in";
# remember conv_units ...

summary(measure.example);
```

```
##                                data_collector                                person_id
## fd36e2b3ec59dbd996587454cbb59725:5    02fd0c9a5c0a52e64e487541c668dbb8: 2
## 00b0bc50a5d4c23ebdac6e69cebf284d:2    cb216e6502316d1466d79b4a18b540cf: 2
## 411f8b5c9500b7cc928c93dd1a0006b7:2    04b2eeaf9dcd75f5fcaeec08f76603f2: 1
## 58056c4dc037cb0dbba1ad30215034da:2    08982a644b08fcabe920861dcf638039: 1
## 5a2f371a934f22dffcf1e994cb6eca40:2    19e7e29d12d3eec6776a993acdfca999: 1
## 7e6e6a69493f1d54a74ecdd4058ebadf:2    1c2408654ef5a2fe1fc96208D879E889: 1
## (Other)                                :7    (Other)                                :14
##      side      height.NA      head.height.NA      head.circumference.NA
## left :11  Min.   : 44.75  Min.   : 6.500  Min.   :19.25
## right: 9   1st Qu.: 64.88  1st Qu.: 8.812  1st Qu.:21.81
## NA's : 2   Median :160.50  Median :20.250  Median :52.00
##                Mean   :125.65  Mean   :17.680  Mean   :40.63
##                3rd Qu.:169.50  3rd Qu.:25.875  3rd Qu.:57.45
##                Max.   :190.00  Max.   :31.000  Max.   :61.00
##
## hand.length.left hand.length.right hand.width.left hand.width.right
## Min.   : 4.875  Min.   : 5.000  Min.   : 5.500  Min.   : 5.500
## 1st Qu.: 7.125  1st Qu.: 7.125  1st Qu.: 7.812  1st Qu.: 7.645
## Median :17.000  Median :16.950  Median :19.250  Median :19.000
## Mean   :13.938  Mean   :13.940  Mean   :14.631  Mean   :14.627
```

```

## 3rd Qu.:19.000 3rd Qu.:18.875 3rd Qu.:20.000 3rd Qu.:20.250
## Max. :21.500 Max. :21.500 Max. :24.500 Max. :24.000
## NA's :2 NA's :2
## hand.elbow.left hand.elbow.right elbow.armpit.left elbow.armpit.right
## Min. :11.25 Min. :11.00 Min. : 6.500 Min. : 6.50
## 1st Qu.:17.03 1st Qu.:17.22 1st Qu.: 9.812 1st Qu.:10.06
## Median :40.75 Median :40.25 Median :21.000 Median :21.50
## Mean :32.67 Mean :32.68 Mean :19.345 Mean :19.53
## 3rd Qu.:45.75 3rd Qu.:45.00 3rd Qu.:27.500 3rd Qu.:27.75
## Max. :52.00 Max. :52.50 Max. :32.500 Max. :32.50
##
## arm.reach.left arm.reach.right arm.span.NA foot.length.left
## Min. : 54.0 Min. : 54.50 Min. : 43.12 Min. : 6.25
## 1st Qu.: 79.0 1st Qu.: 79.38 1st Qu.: 65.47 1st Qu.: 9.50
## Median : 93.5 Median : 93.25 Median :165.00 Median :22.75
## Mean :135.7 Mean :135.92 Mean :127.18 Mean :18.70
## 3rd Qu.:210.0 3rd Qu.:212.00 3rd Qu.:173.75 3rd Qu.:25.93
## Max. :233.0 Max. :234.00 Max. :193.00 Max. :30.00
## NA's :1 NA's :1
## foot.length.right floor.kneepit.left floor.kneepit.right floor.hip.left
## Min. : 6.500 Min. :12.50 Min. :12.38 Min. : 25.75
## 1st Qu.: 9.562 1st Qu.:17.12 1st Qu.:17.22 1st Qu.: 36.88
## Median :22.750 Median :40.75 Median :40.75 Median : 86.25
## Mean :18.693 Mean :33.32 Mean :33.36 Mean : 68.11
## 3rd Qu.:26.000 3rd Qu.:45.12 3rd Qu.:45.25 3rd Qu.: 95.62
## Max. :30.000 Max. :51.00 Max. :51.00 Max. :102.00
## NA's :2
## floor.hip.right floor.navel.NA floor.armpit.left floor.armpit.right
## Min. : 25.50 Min. : 25.88 Min. : 35.00 Min. : 35.00
## 1st Qu.: 37.16 1st Qu.: 38.50 1st Qu.: 52.94 1st Qu.: 52.00
## Median : 86.50 Median : 95.25 Median :123.50 Median :120.00
## Mean : 68.03 Mean : 76.74 Mean : 97.79 Mean : 93.68
## 3rd Qu.: 96.33 3rd Qu.:102.38 3rd Qu.:132.25 3rd Qu.:130.00
## Max. :102.00 Max. :143.00 Max. :143.00 Max. :142.50
## NA's :2 NA's :1
## units writing eye eye_color swinging age
## cm :13 left : 2 equal: 1 black:1 left : 2 Min. : 5.00
## in : 9 right:20 left : 9 blue :4 right:20 1st Qu.:20.75
## inches: 0 right:12 brown:9 Median :29.50
## green:4 Mean :32.64
## hazel:4 3rd Qu.:36.75
## Max. :72.00
##
## gender quality minutes ethnicity notes
## f : 0 Min. : 6.000 Min. :10.00 white :15 Length:22
## female:14 1st Qu.: 7.125 1st Qu.:12.75 asain : 1 Class :character
## m : 0 Median : 9.000 Median :15.00 asian : 1 Mode :character
## male : 8 Mean : 8.341 Mean :16.05 caucasian: 1
## 3rd Qu.: 9.000 3rd Qu.:19.25 filipino : 1
## Max. :10.000 Max. :30.00 indian : 1
## (Other) : 2

```


Correlation Example

Again, this is an example of just some of the data. The dataframe has “right” and “left” which at times may have missing data. I provided code for you to build variables that merge those by taking an average if both exist. That is the data you should be using.

```
another.example = measure.example[, 4:8];

colnames(another.example) = c("height", "headH", "headC", "handL.l", "handL.r");

my.M = colMeans(another.example);
# my.SD = ??? how are you going to get this data?

my.SD = abs( rnorm(ncol(another.example), mean=13, sd = 1) ); # this is intentionally not correct ...

library(Hmisc);

## Loading required package: lattice

## Loading required package: survival

## Loading required package: Formula

## Loading required package: ggplot2

##
## Attaching package: 'Hmisc'

## The following objects are masked from 'package:base':
##
##      format.pval, units

my.corr = rcorr( as.matrix(another.example), type="pearson");

str(my.corr);

## List of 3
## $ r: num [1:5, 1:5] 1 0.945 0.9 0.988 0.986 ...
##   ..- attr(*, "dimnames")=List of 2
##     .. ..$ : chr [1:5] "height" "headH" "headC" "handL.l" ...
##     .. ..$ : chr [1:5] "height" "headH" "headC" "handL.l" ...
## $ n: int [1:5, 1:5] 22 22 22 22 22 22 22 22 22 22 ...
##   ..- attr(*, "dimnames")=List of 2
##     .. ..$ : chr [1:5] "height" "headH" "headC" "handL.l" ...
##     .. ..$ : chr [1:5] "height" "headH" "headC" "handL.l" ...
## $ P: num [1:5, 1:5] NA 3.42e-11 1.17e-08 0.00 0.00 ...
##   ..- attr(*, "dimnames")=List of 2
##     .. ..$ : chr [1:5] "height" "headH" "headC" "handL.l" ...
##     .. ..$ : chr [1:5] "height" "headH" "headC" "handL.l" ...
## - attr(*, "class")= chr "rcorr"
```

```

my.corr.r = my.corr$r;
my.corr.pval = my.corr$p;

# we have long variable names, we may want to create a dictionary that shortens them, and build an appendix
# the appendix should have the handout, the data collection process outlined, the data provenance protocol

my.corr.r.2 = round(my.corr.r,2);
my.corr.p.3 = as.numeric( round(my.corr.pval,3) ); # flatten

cuts = c(0.10, 0.05, 0.01, 0.001);
symb = c("+", "*", "**", "***");

my.corr.p.3.symb = "";
my.corr.p.3.symb[is.na(my.corr.p.3)] = "";
my.corr.p.3.symb[my.corr.p.3 <= 0.10] = "+";
my.corr.p.3.symb[my.corr.p.3 <= 0.05] = "*";
my.corr.p.3.symb[my.corr.p.3 <= 0.01] = "**";
my.corr.p.3.symb[my.corr.p.3 <= 0.001] = "***";

my.corr.p.3.symb;

## [1] ""      "***" "***" "***" "***" "***" ""      "***" "***" "***" "***" "***"
## [13] ""      "***" "***" "***" "***" "***" ""      "***" "***" "***" "***" "***"
## [25] ""

```

```

include.diag = FALSE; # the 1's on the diagonal are not included
# this is a lower triangular form ...

```

```

char.matrix = as.character(my.corr.r.2);

my.matrix = matrix(
  paste0(char.matrix, my.corr.p.3.symb),
  nrow=ncol(another.example));
my.matrix;

```

```

##      [,1]      [,2]      [,3]      [,4]      [,5]
## [1,] "1"      "0.95***" "0.9***" "0.99***" "0.99***"
## [2,] "0.95***" "1"      "0.91***" "0.96***" "0.96***"
## [3,] "0.9***"  "0.91***" "1"      "0.9***" "0.91***"
## [4,] "0.99***" "0.96***" "0.9***" "1"      "1***"
## [5,] "0.99***" "0.96***" "0.91***" "1***"  "1"

```

TODO: I (instructor) will write a function that takes this string and builds and stores as a LaTeX figure

Build a “One graphic”

Generally, the one-graphic is descriptive in nature. In context of the “measure” data, the correlations between the different features of the human body is interesting, but is not the primary descriptive. The descriptive is more simple and can be represented using “relative distances” or ratios.

Vitruvial Man

If you recall in the reading Vitruvian Man (See **week_06**), the data was a scaled to a proportion of a person's height. For example, if I am 100 cm tall, and my arm span is 90 cm, the arm span can be reported as a proportion 0.90 and you can consider how that research-specific data may update how you build correlation and summary tables.

Note Table in Vitruvian has a proportion for the female gender that is a typo: 1.46 should be 0.46 ...

Should you scale the data to these proportions? If so, **height** needs to be reported in raw terms: "We found that males on average are about 176 cm tall ($M = 175.5$, $SD = 6.75$) and females on average are 164 cm tall ($M = 163.7$, $SD = 6.54$)."

Note on round(x, digits=?)

Note I commonly round M (mean values) to one decimal and SD (standard deviation) to two decimals, and I intentionally try to include leading zeroes on this data if possible. This makes it easier to process when reading, especially if they are consistent. Similarly, I generally report two decimal-places for correlations and three decimal-places for p-values (unless I do the $p < .10$ cut-approach). When reporting the r correlation and p p-value, it is often a common practice to drop any leading zeroes. As a mathematician, I cringe, but this is the general protocol.

Reporting scaled data

After reporting on the scaling factor, you could report all of the other data as proportions. In this case, I would report two-digits for the mean and three digits for the standard deviation ($M = 0.14$, $SD = 0.290$). Other times, we may scale to a common prefix (e.g, millions of dollars on the IMDB data). Just be certain to report the scale used: "We compare the box-office receipts of movies using millions of dollars adjusted for inflation and standardized to the year 2000. The average film 'raked in' about \$50 million dollars ($M = 48.3$, $SD = 7.43$)."

Description

A description should be concise, yet thorough. I consider the description to be "pedantic" :: exhibiting overly concern with details and accuracy, quibbling over precise language. Some have considered "pedantic" to be associated with a judgment of "hubris"; however, the judgment is just that, a judgment. Good writing and storytelling in a technical situation requires an art of making certain all of the relevant minutia is shared in a way that demonstrates "a deep understanding" of the data.

To achieve this, the 5 W's should be invoked https://en.wikipedia.org/wiki/Five_Ws, a fundamental approach to writing. Have you covered the description in an exhaustive form?

Mastery of Description Writing

We will apply this to an earlier assignment where you were asked to described the `iris` dataset.

[Write] **2-3 sentences concisely defining the IRIS Data Set. Maybe search KAGGLE for a nice template. Be certain the final write up are your own sentences (make certain you modify what you find, make it your own, but also cite where you got your ideas from).**

- A novice (**nascent**) would literally go to Kaggle, copy/paste the description, change a few words and submit.

- An apprentice (**developing**) would consider the key aspects of what a full description should contain: the 5 W's
- A master apprentice (**mastery**) would consider the 5 W's and also engage in higher-ordered thinking (analysis/synthesis/evaluation) http://md5.mshaffer.com/WSU_STATS419/_images_/blooms-taxonomy.jpg to possibly include some other **creative insights** that will inform the reader.

Six elements of 5 W's

The **Who**, the **What**, the **When**, the **Where**, the **Why**, and the **How**.

- **Who:** The iris dataset is often tied to R.A. Fisher, but I provided a reading (see **week_02**) with the originator of the data. Both could be mentioned in the who. And if both are mentioned, both should be referenced or cited.
- **What:** The iris dataset consists of a flower with three species. Did you mention that? Did you mention the Latin names for the species? See `?iris` for some detail just within the R environment. I provided the original reading so you could explain some very basic information about each species, such as geographic prevalence. Does the latitude (how far north it is) not influence the flowering size?
- **When:** this may often go with **Where** and **How** as it represents key factors of data provenance.
- **Why:** this is a nice transition question to higher-order thinking. Why did Anderson collect the **iris** data? This can also lead to “so-what” or “why” for us today, why do we care about this dataset? As the instructor, I believe it is a common multivariate dataset that every student should be aware of.

Mastery Description

Once you examine the description thoroughly, it is time to put on your thinking hat. Why am I describing this? Who is the audience? [e.g., we practice that the audience is a boss or possibly represents a “portfolio” element that you could use during the job search.] What “creative” insights do I have beyond the basics of the 5 W's?

Next, you need to consider how to concisely describe all of the details discovered. It should be concise, yet thorough.