2. A detailed explanation of the attributes of the data.

- Describe if the attributes are discrete/continuous, Nominal/Ordinal/Interval/Ratio,
- Give an account of whether there are data issues (i.e. missing values or corrupted data) and describe them if so.
- Include basic summary statistics of the attributes.

If your data set contains many similar attributes, you may restrict yourself to describing a few representative features (apply common sense).

Attributes

sbp-systolic blood pressure-discrete-ratio data tobacco-cumulative tobacco (kg)-continuous-ratio data ldl-low density lipoprotein cholesterol-continuous- ratio data adiposity-continuous-ratio data famhist-family history heart disease-Nominal typea-type A behaviors- discrete-ratio data obesity-continuous-ratio data alcohol-current alcohol consumption-continuous- ratio data age-discrete- Ratio data chd-coronary heart disease (Trevor Hastie, u.d.)-Nomial

Basic Summary

Basic Summary

```
In [8]: df1.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 462 entries, 0 to 461
Data columns (total 10 columns):
                Non-Null Count
     Column
                                Dtype
     -----
                -----
                462 non-null
                                int64
 0
     sbp
                462 non-null
                                float64
 1
     tobacco
                462 non-null
                                float64
 2
     ldl
 3
     adiposity 462 non-null
                                float64
 4
     famhist
                462 non-null
                                object
 5
     typea
                462 non-null
                                int64
     obesity
                462 non-null
                                float64
 7
     alcohol
                462 non-null
                                float64
 8
     age
                462 non-null
                                int64
                462 non-null
     chd
                                int64
dtypes: float64(5), int64(4), object(1)
memory usage: 36.2+ KB
```

Basic Statistics

Attribute Statistics

f1.describe(include='all')										
	sbp	tobacco	ldl	adiposity	famhist	typea	obesity	alcohol	age	chd
count	462.000000	462.000000	462.000000	462.000000	462	462.000000	462.000000	462.000000	462.000000	462.000000
unique	NaN	NaN	NaN	NaN	2	NaN	NaN	NaN	NaN	NaN
top	NaN	NaN	NaN	NaN	Absent	NaN	NaN	NaN	NaN	NaN
freq	NaN	NaN	NaN	NaN	270	NaN	NaN	NaN	NaN	NaN
mean	138.326840	3.635649	4.740325	25.406732	NaN	53.103896	26.044113	17.044394	42.816017	0.346320
std	20.496317	4.593024	2.070909	7.780699	NaN	9.817534	4.213680	24.481059	14.608956	0.476313
min	101.000000	0.000000	0.980000	6.740000	NaN	13.000000	14.700000	0.000000	15.000000	0.000000
25%	124.000000	0.052500	3.282500	19.775000	NaN	47.000000	22.985000	0.510000	31.000000	0.000000
50%	134.000000	2.000000	4.340000	26.115000	NaN	53.000000	25.805000	7.510000	45.000000	0.000000
75%	148.000000	5.500000	5.790000	31.227500	NaN	60.000000	28.497500	23.892500	55.000000	1.000000
max	218.000000	31.200000	15.330000	42.490000	NaN	78.000000	46.580000	147.190000	64.000000	1.000000

Missing Values

Checking for Missing Values

No missing values