mean of (list)

set variable (sum) **as** 0

for each (item) **in** (list)

    set variable (sum) **as** (sum) **+** (item)

set variable (number of items) **as length of** (list)

if (number of items) **is** 0

    return 0

return (sum) **/** (number of items)

---

variance of (list), (mean)

set variable (sum) **as** 0

for each (item) **in** (list)

    set variable (difference from mean) **as** ((item) **-** (mean))^2

    set variable (sum) **as** (sum) **+** (difference from mean)

set variable (number of items) **as length of** (list)

if (number of items) **is** 0

    return 0

return (sum) **/** (number of items)

```
visualise for (list)

for each (item) in (list)
    set variable (item) as integer value of (item)
    print (item) time *

set variable (mega-collector) as an empty dictionary

for each (line) in file experimental_data.txt
    set variable (condition) as first value of (line) separated by ,
    set variable (measurement) as second value of (line) separated by ,
    if < (condition) not in (mega-collector) >
        set the value of key (condition) at dictionary (mega collector) as an empty list
    append (measurement) to list under key (condition) at dictionary (mega-collector)

for (condition), (measurements) in (mega-collector)
set variable (mean) as the return value of function mean ▾ with the inputs (measurements)
set variable (variance) as the return value of function variance ▾ with the inputs (measurements) an
set variable (list) as values (mean), (variance) on a list
call function visualise ▾ with the inputs (list)
```