**explain this code: year <- function(x) as.POSIXlt(x)$year + 1900**

：The code `year <- function(x) as.POSIXlt(x)$year + 1900` defines a custom function called `year`. This function takes an input `x`, which is expected to be a date or a timestamp in R.

Here's a breakdown of what the code does:

1. `as.POSIXlt(x)` converts the input `x` into a POSIXlt object, which represents date and time information in R. This conversion allows accessing various components of the date or timestamp.

2. `as.POSIXlt(x)$year` extracts the year component from the POSIXlt object. The `$year` notation accesses the 'year' attribute of the POSIXlt object.

3. `as.POSIXlt(x)$year + 1900` adds 1900 to the extracted year value. This is necessary **because the `year` attribute returned by `as.POSIXlt()` represents the number of years since 1900. So, adding 1900 adjusts it to the actual calendar year.**

#主要就是这个解释比较关键

4. Finally, the resulting value is returned as the output of the `year` function.

To use this function, you can pass a date or timestamp as an argument. For example, `year(Sys.Date())` will return the current year.