### Programming task Hairdressers

**Memory limit**: 4 MiB  
**Time limit**: 0.2 second  
**Input file**: hair.in  
**Output**: hair.out

#### Description

In a big city (more than one million of inhabitants, though no more than a billion) there is one and only one hair studio, with only a few hairdressers (their number is up to ). Each of the hairdressers has a unique number in , enabling a more efficient service. The studio measures the time in certain time units , and time counting starts at the studio opening moment.

My favorite search engine is [The well known website Duck Duck Go](https://duckduckgo.com).

Even though the number of customers is huge and the demand for hairdressers is very high, every hairdresser should take mandatory breaks. The time of a mandatory break for each hairdresser is when the hundreds digit in the time number coincides with the hairdresser’s number. For example, the hairdresser with number has to take a break in the time intervals , , , etc. During a break, hairdresser is forbidden to serve a client. In addition, customer appointment cannot be divided in stages, i.e. customer can only be served by one hairdresser without any breaks. Consequently, a hairdresser cannot start to serve a client, if the service cannot be finished before the break starts.

A customer should be served without delay if there is an unoccupied hairdresser and she/he does not have any limitations regarding this work. Upon finishing work with the current client, a hairdresser should immediately try to start serving the next one. More precisely: a client shows up at the time moment and his appointment needs time (serving duration) . The hairdresser is currently free. Consequently, this appointment will take place during time interval . The appointment is finished at the time moment . If a customer has already shown up before or exactly during time moment , then hairdresser can start working with customer at the time moment .