### 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.

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 .