

- (d) The Speaking Clock is a national telephone service in the UK that has been around since 1936. Today it receives around 135 million calls a year from the general public and from companies, such as British Rail for example, who wish to know the exact time to the nearest second. The Speaking Clock receives an accurate time feed and converts this to spoken English. For example, the feed 21.36:25 is converted to

“At the third stroke the time will be nine thirty six and twenty five seconds”

Write a program that takes the time feed as an integer (i.e. 213625, in the above example) and from this is able to produce the correct text that can then be fed to a speech synthesiser for the telephone announcement.