```
MIXER
# BIT DEFINITION FOR PORTC
START := 0
S1 := 1
S2 := 2
S3 := 3
E1 := 4
E2 := 5
E3 := 6
M := 7
E1_TIMEOUT := 2 seconds
set START, S1, S2, S3 as input
set E1, E2, E3, M as output
Forever
  START is 0
    nop
  turn off E3
  E1_TIME := current time
  S3 is 1
                            ___current time - E1_TIME <= E1_TIMEOUT
                                                              turn off E1
    turn on E1
                                                  S2 is 0
    ٧
                                                                         F
    turn on M
                                                                       nop
    turn on E2
  turn off E2
  turn on E3
  S2 is 0
    nop
  turn off M
  S1 is 0
    nop
```