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BEGIN
#Set as class so it can be used throughout.
class Users():

        WR_Men = 9.58
        ER_Men = 9.86
        BR_Men = 9.87

        WR_Women = 10.49
        ER_Women = 10.73
        BR_Women = 10.99


        PUBLIC FUNCTION init(self):
                self.athlete_time = input OR integer 2 decimal places
                self.athlete_initials = input (alphabetical)
                self.athlete_lane_num = integer input

        PUBLIC FUNCTION add_athlete():
                while True:
                        print "Please enter the time of this athlete!"
                        self.athlete_time = user_input
                        if self.athlete_time is to 2 decimal places:
                                print "Please enter the initials for this athlete"
                                self.athlete_initials = user_input
                                if self.athlete_initials is alphabetical and two letters:
                                        self.athlete_lane_num = user_input
                                        if self.athlete_lane_num is an integer and between 1 - 8:
                                                END FUNCTION
                                else:
                                        print "Please enter the details again as there was an
error!!"
                                        return add_athlete()
                                        END FUNCTION

        PUBLIC ARRAY athlete_list_male[]
        PUBLIC ARRAY athlete_list_female[]

        PUBLIC FUNCTION Sort_Athlete_Time(athlete_time):
                sorted = True
                while sorted:
                        sorted = False
                                check each instance in athlete_time against one another
                                if one instance in athlete_time is > the next one in sequential
order - switch places
                                once all have been sorted from lowest to highest
                                        sorted = True
        END FUNCTION

        PUBLIC FUNCTION GetAthleteMale(athlete_list_male):
                return("Athlete Initials: " + self.athlete_initials "| Time: "  +
self.athlete_time  "Lane Number: " + self.athlete_lane_num )

        PUBLIC FUNCTION GetAthleteFemale(athlete_list_female):
                return("Athlete Initials: " + self.athlete_initials "| Time: "  +
self.athlete_time  "Lane Number: " + self.athlete_lane_num )

        user = True
        while user = True:

                print "Welcome user - please select from the list what you would like to do"
                print "1. Add an athlete"
                print "2. Sort the athlete list into order, fastest to slowest"
                print "3. Check to see if a new record has been set!"
                print "4. View pre-existing race list (Male or Female Specific)"
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                print "5. Quit"

                print "Please enter an option "
                answer = input

                if answer == "1":
                        athlete = Users():
                        athlete.add_athlete()
                        print "Are these athletes male or female? Answer M or F!"
                        MorF = input
                        if MorF = "M":
                                athlete_list_male.addto(athlete) #Adds contained data to the
specified male array
                        else:
                                athlete_list_female.addto(athlete) #Adds contained data to the
specified female array
                                END FUNCTION

                elseif answer == "2":
                if length of array(athlete_list_male OR athlete_list_female)  == 0:
                        print "ERROR! NO VALUES CONTAINED WITHIN EITHER ARRAYS!"
                else:
                                Sort_Athlete_Time(athlete_list_male OR athlete_list_male)
                                END FUNCTION

                elseif answer == "3":
                print "Are the participants of this race male or female?"
                MorF = input
                if MorF = "M":
                         check athlete_list_male each instance in the array against the WR_Men &
ER_Men & BR_Men
                         if any instance in athlete_list_male is < WR_Men or ER_Men or BR_Men then
a new record has been set
                                print "A new record has been set for: " + athlete that has beaten
the pre-existing record(s)
                else:
                                check athlete_list_male each instance in the array against the
WR_Women & ER_Women & BR_Women
                                if any instance in athlete_list_male is < WR_Women or ER_Women or
BR_Women then a new record has been set
                                        print "A new record has been set for: " + athlete that has
beaten the pre-existing record(s)
                                        END FUNCTION

                elseif answer == "4":
                        if length of array(athlete_list_male OR athlete_list_female)  == 0:
                                print "ERROR! NO VALUES CONTAINED WITHIN EITHER ARRAYS!"
                        else:
                                        print "Do you want to look up the male or female athlete
list?"
                                        MorF = input
                                        if MorF = "M":
                                                for instance in athlete_list_male:
                                                        print (instance.GetAthleteMale())
                                        else:
                                                for instance in athlete_list_female:
                                                        print (instance.GetAthleteFemale
                                                        END FUNCTION

                elseif answer == "5":
                        exit application

END
```