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# By submitting this assignment, I agree to the following:
# "Aggies do not lie, cheat, or steal, or tolerate those who do"
# "I have not given or received any unauthorized aid on this assignment"
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#Section 510
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Variables:

Age (float)

Gender (string)

hdl (float)

systolicBp (float)

treated (bool)

smoker (bool)

total_cholesterol (float)

Points (int)

-Get input for all variables besides points

- check for gender – do different if male or female then

-compute and add points for age

- compute and add points for hdl

-compute and add points based on systolicBp and whether it is treated

-compute and add points based on whether the person is a smoker or not based on age

-compute and add points based on total_cholesterol based on age

-based on points print the chance of heart disease in 10 years

TEST CASES

FULL: (age/gender/hdl/systolicBp/treated/smoker/cholesterol)

20/m/70/110/no/no/150 # test lowest male – expected <1%

79/m/39/170/yes/yes/290 #extreme male high – expected > 30%

20/f/70/110/no/no/150 # test lowest female – expected < 1%

79/f/39/170/yes/yes/290 #extreme male high – expected > 30%

age 34 gender m – age test = -9 edge

age 44 gender m– age test = 0

age 54 gender m– age test = 6

age 64 gender m– age test = 10

age 74 gender m– age test = 12

age 39 gender f– age test = -3

age 49 gender f– age test- = 3

age 59 gender f– age test - =8

age 69 gender f– age test - = 12

age 79 gender f– age test - = 16 edge

hdl 69 gender m = -1 hdl test edge

hdl 59 gender m = 0 hdl test

hdl 49 gender m = 1 hdl test

hdl 39 gender m= 2 hdl test edge

hdl 60 gender f = -1 hdl test edge

hdl 50 gender f = 0 hdl test

hdl 40 gender f = 1 hdl test

hdl 30 gender f = 2 hdl test edge

chol 159 age 20 gender m – total_cholesterol test = 0 edge

chol 199 age 40 gender m – total_cholesterol test = 3

chol 239 age 50 gender m – total_cholesterol test = 3

chol 279 age 60 gender m – total_cholesterol test = 2

chol 281 age 70 gender m – total_cholesterol test = 1 edge

chol 159 age 79 gender f – total_cholesterol test = 0 edge

chol 199 age 69 gender f – total_cholesterol test = 1

chol 239 age 59 gender f– total_cholesterol test = 3

chol 279 age 49 gender f – total_cholesterol test = 6

chol 281 age 39 gender f – total_cholesterol test = 11 edge

Bp 119 not treated male = 0 extreme

Bp 129 not treated female = 1

Bp 139 not treated male = 1

Bp 159 not treated female = 3

Bp 161 not treated male = 2 extreme

Bp 119 treated female = 0 extreme

Bp 129 treated male = 1

Bp 139 treated female = 4

Bp 159 treated male = 2

Bp 161 treated female = 6 extreme