21BDS0340

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Probability and Statistics Lab

Lab Assessment – II

Code:

exp = c(50, 150, 250, 350, 450, 550, 650)

fam = c(10, 6, 9, 16, 4, 24, 27)

d = rep(exp, fam)

print(paste("Mean: ", mean(d)))

print(paste("Median: ", median(d)))

print(paste("Mode: ", max(d)))

MDmean = 0

for(i in d){

MDmean = MDmean + abs(mean(d) - i)

}

print(paste("Mean deviation about mean: ", MDmean / length(d)))

MDmedian = 0

for(i in d){

MDmedian = MDmedian + abs(median(d) - i)

}

print(paste("Mean deviation about median: ", MDmedian / length(d)))

MDmode = 0

for(i in d){

MDmode = MDmode + abs(max(d) - i)

}

print(paste("Mean deviation about mode: ", MDmode / length(d)))

Output:

Text

Description automatically generated with medium confidence