

Q4. When taking into account  $p_1$  and  $p_2$  the cosine similarity is far more accurate than SMC, although SMC does really well in reading binary functions, it isn't entirely accurate when looking at integers. SMC will only compute the difference in data points and divide it into the amount of data you have, while the cosine similarity will take the measurement of the angle between the data points and return a number that is far more accurate.