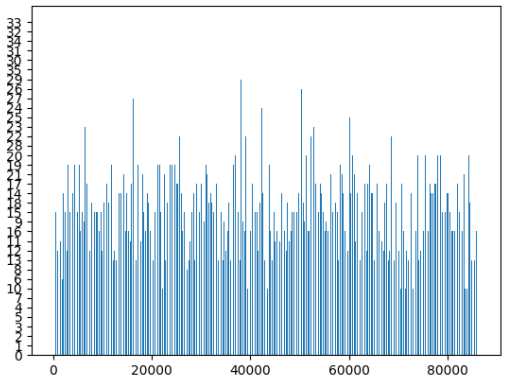
Project 2 Report F74076132 吳雨辰

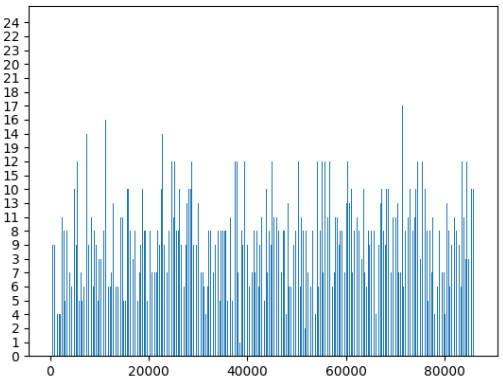
圖表：

1.Arrival rate = 1/2

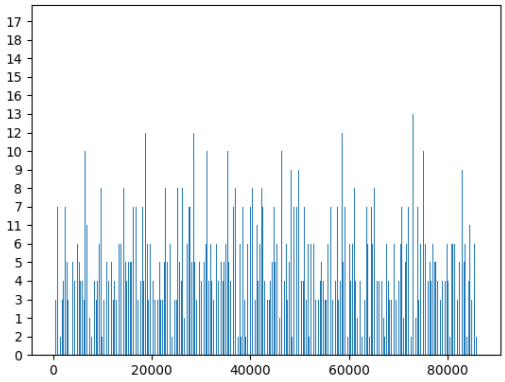
>Best



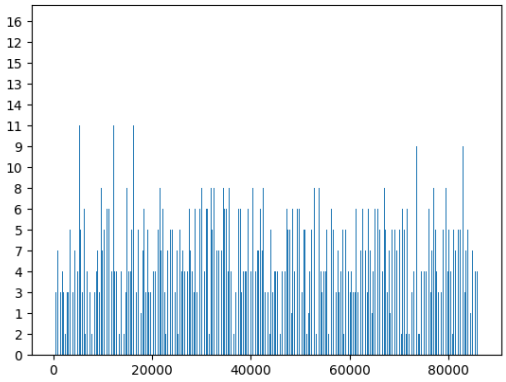
>Threshold (T = 15)



>Entropy(E = 13)

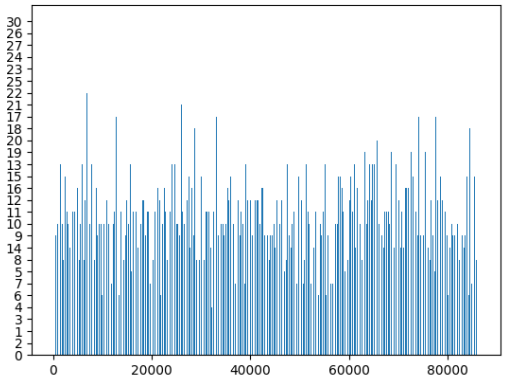


>Mine

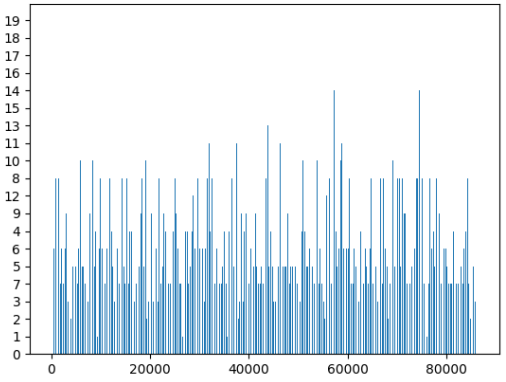


2.Arrival rate = 1/3

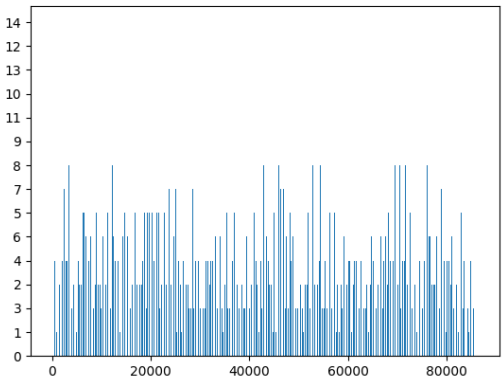
>Best



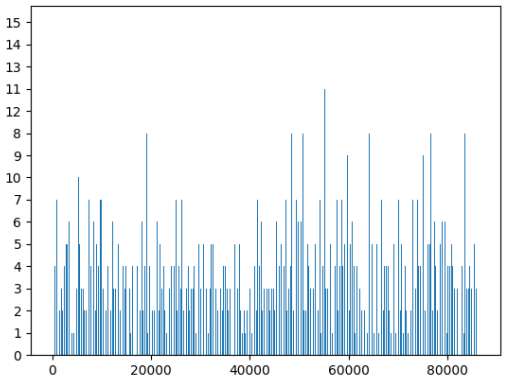
>Threshold (T = 15)



>Entropy(E = 13)

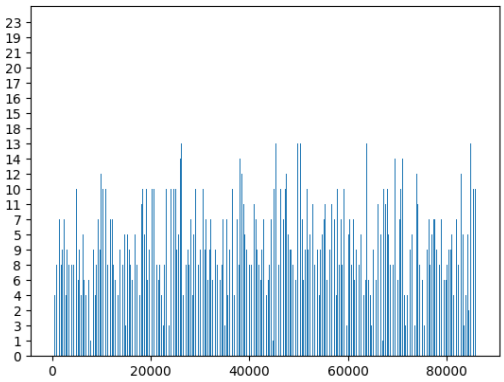


>Mine

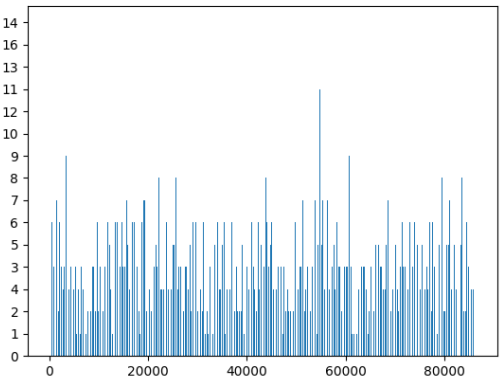


3.Arrival rate = 1/5

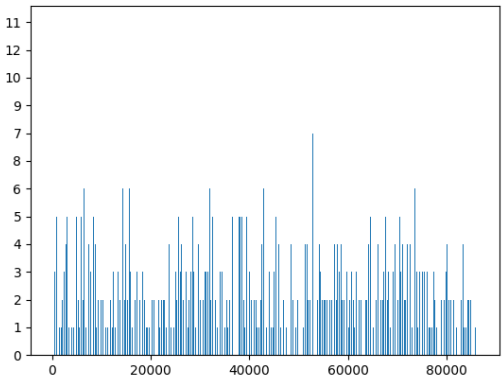
>Best



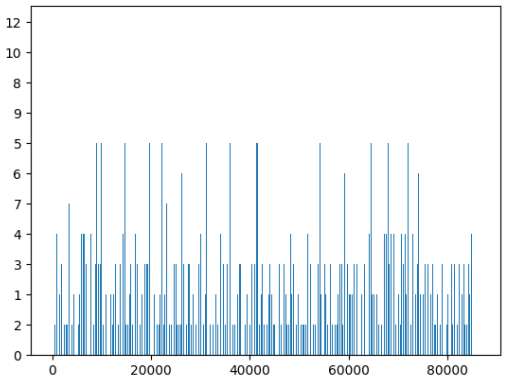
>Threshold (T = 15)



>Entropy(E = 13)



>Mine



Mine Policy 介紹：

結合 Threshold 跟 Entropy 兩個 Policy，取 T=17, E = 11

只有在 P_old < 17dBm 而且 P_new > P_old + 11dBm 時才交換。

Handoff 次數明顯比 Best 跟 Threshold 少，與 Entropy 比少一些，

且平均 Power 與 Threshold 跟 Entropy 相近。

簡單說就是用一點點 Avg Power 的降低來換到更少的 Handoff 次數。

以下附上數據：

Arrival rate: 0.500000
T = 17.000000, E = 11.000000
Total_power_max: 2679020429.425767, Avg_max: 21.704695 dBm
Total_power_min: 2312464623.908917, Avg_min: 18.734960 dBm
Condition: 20.219827 dBm
Total_power: 2497981985.567930, Avg power: 20.237971 dBm
Total cars: 123430456, Avg cars per sec: 1428 cars
Handoffs: 416278 times

Arrival rate: 0.333333
T = 17.000000, E = 11.000000
Total_power_max: 1934972116.206933, Avg_max: 21.713416 dBm
Total_power_min: 1669676880.301205, Avg_min: 18.736388 dBm
Condition: 20.224902 dBm
Total_power: 1803992451.325280, Avg power: 20.243619 dBm
Total cars: 89114129, Avg cars per sec: 1031 cars
Handoffs: 301674 times

Arrival rate: 0.200000
T = 17.000000, E = 11.000000
Total_power_max: 1237459030.065003, Avg_max: 21.713353 dBm
Total_power_min: 1067951937.098360, Avg_min: 18.739058 dBm
Condition: 20.226205 dBm
Total_power: 1153934072.818300, Avg power: 20.247763 dBm
Total cars: 56990694, Avg cars per sec: 659 cars
Handoffs: 193366 times

其他數據請見 log.txt