


```

X6    7 1 0 1 1 0 0 1 1 1 2225.276 0.5862400 0.4907569 4.150550288
152.9673 163.4428 3199.850
X6.1  7 1 1 1 1 1 0 0 1 0 2231.971 0.5849953 0.4892249 4.220196290
153.0664 163.5419 3199.160
X7    8 1 0 1 1 0 1 1 1 1 2213.993 0.5883381 0.4730727 6.033160174
154.7995 166.7716 3587.280
X7.1  8 1 0 1 1 1 0 1 1 1 2223.183 0.5866293 0.4708854 6.128771616
154.9362 166.9083 3416.722
X8    9 1 0 1 1 1 1 1 1 1 2210.966 0.5889008 0.4518677 8.001675326
156.7544 170.2229 3964.204
X8.1  9 1 1 1 1 0 1 1 1 1 2212.803 0.5885593 0.4514124 8.020784406
156.7818 170.2503 3992.082
X9   10 1 1 1 1 1 1 1 1 1 2210.805 0.5889307 0.4280775 10.000000000
158.7519 173.7170 4106.195
> Q2a[5,15]
[1] 148.7339
> Q2a[6,15]
[1] 149.4939
> Q2a[7,15]
[1] 150.6752

```

2(a)

Three lowest AICp is from

X2 、 X3 以及 X1 and X3 的 interaction AICp 是 148.7339

X2 、 X3 平方 以及 X1 and X2 的 interaction AICp 是 149.4939

X2 、 X3 、 X2 平方 以及 X1 and X2 的 interaction AICp 是 150.6752

~~2(b)~~

~~Yes, it has much difference in AICp for the three best subset models .~~