

第三題b(i)

In [1]:

```
temp = [[85, 85, 85, 85, 20]]  
  
fo = 0.5  
for p in range(1,10):  
    newtemp = list()  
    newtemp.append(round(0.5*(2*temp[p-1][1]),1))  
    for i in range(1,4):  
        #print(i)  
        newtemp.append(round(0.5*(temp[p-1][i-1]+temp[p-1][i+1]),1))  
    newtemp.append(20)  
    temp.append(newtemp)  
  
p = 0  
for i in temp:  
    print(p,i)  
    p += 1
```

```
0 [85, 85, 85, 85, 20]  
1 [85.0, 85.0, 85.0, 52.5, 20]  
2 [85.0, 85.0, 68.8, 52.5, 20]  
3 [85.0, 76.9, 68.8, 44.4, 20]  
4 [76.9, 76.9, 60.7, 44.4, 20]  
5 [76.9, 68.8, 60.7, 40.4, 20]  
6 [68.8, 68.8, 54.6, 40.4, 20]  
7 [68.8, 61.7, 54.6, 37.3, 20]  
8 [61.7, 61.7, 49.5, 37.3, 20]  
9 [61.7, 55.6, 49.5, 34.8, 20]
```

ans = [61.7, 55.6, 49.5, 34.8, 20]

In []:

In []: