

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 []:

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