```
Quesz
```

a) length = m for binary

string.

if 
$$m = 3 eg$$
.

 $m = 3$ 

000

001

010 = 8 =  $2^3 = 2^m$ .

011

100

101

110

101

100

101=11

101=15

Av. fitness (S1) =

8+9+10+---++5

8

Similarly for  $0 * * * * = S2$ 

av. fitness (S2) =

 $0 + 1 + 2 + - + + 7 = \sqrt{8}$