Splitting node: color=green

color=green

	skin	size	flesh	class
2	hairy	large	hard	safe
4	hairy	large	soft	safe
8	hairy	small	soft	dangerous
9	smooth	small	hard	dangerous
12	smooth	small	soft	dangerous
16	hairy	small	hard	dangerous

Entropy of the node [skin=smooth]=-2/2 log 2/2 =0

Entropy of the node [skin=hairy]=-2/4 log 2/4-2/4 log 2/4 =0.30

Averaged entropy of the split on skin=4/6 *0.30 = **0.20**

The best

Entropy of the node [size=large]=-2/2 log 2/2 =0

Entropy of the node [size=small]=-4/4 log 4/4 =0

Averaged entropy of the split on size=**0.00**

Entropy of the node [flesh=soft]=-1/3 log 1/3 – 2/3 log 2/3=0.28

Entropy of the node [flesh=hard]=-1/3 log 1/3 – 2/3 log 2/3=0.28

Averaged entropy of the split on flesh=3/6 *0.28 +3/6*0.28 = **0.28**