2.霍夫曼编码为：

c1:0110

c2:10

c3:0000

c4:0111

c5::001

c6:010

c7:11

c8:0001

总编码长度为：（4\*5+2\*25+4\*3+4\*6+3\*10+3\*11+2\*36+4\*4）=257

3.(1)是

3.(2) {12,24,33,65,33,56,48,92,86,70}

3.(3)是

3.(4){05,23,20,56,28,38,29,61,35,76,40,100}