**Attribute Information:**

1) ID number  
2) Diagnosis (M = malignant, B = benign)  
3-32)  
  
32 real-valued features are computed for each cell nucleus (here are first 10):  
  
a) radius (mean of distances from center to points on the perimeter)  
b) texture (standard deviation of gray-scale values)  
c) perimeter  
d) area  
e) smoothness (local variation in radius lengths)  
f) compactness (perimeter^2 / area - 1.0)  
g) concavity (severity of concave portions of the contour)  
h) concave points (number of concave portions of the contour)  
i) symmetry  
j) fractal dimension ("coastline approximation" - 1)