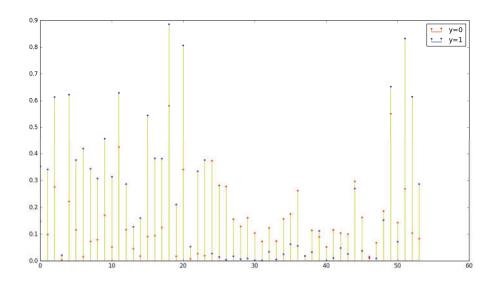
```
yo = arg max P(yo=y|π) 1 Pa(xo,d18)
      => fr. by. by = arg max = [np(y; |Ti) + = Inp(x; |Oy;) + = [np(x; |Oy;) + = [np(x; |Oy;)] + = [np(x; |Oy;)]
           and : P(y17) ~ Remonth (y17)
... P(y17) = T1 (1-17) (-41)
                 C Pi~ Bernewlli (xon 164')
                 -- P(X;1/8%;) = (04) Xo.1 (1-64) 1- Xo.1
                · Pr ~ Pareto (xo,z 164)
· P(X; 2164) = 87 (xo,z) - (67+1)
   Tet = 2 [ 4: ln = + (1-y, ) ln(1-11)] + $ [ Yei ln 8 + (1-Yei) ln(1-64')] + $ [-64+) ln/62
   (a) \sqrt{L} = \sum_{i=1}^{n} \left[ \frac{y_i}{\pi} - \frac{1 - y_i}{1 - \pi} \right]
        let 7/2 = 0, then = [4 - 17/2] = 0
        到一切り、一切しり、よのヨガニカラリ
       、カニカラダ
 (b) 700 L = = [ [ 1 / 1 / 1 - 2 / 1 / 1 - 0 / 1 / 1 / 1 ] 114:24)
      let 7,1-0. then = 1 771 - 1-191 ] - 1/4:- y) = 0
       シミア(トリックな、- (トをいのり)」をから)
       : êy = 1 1/3=y1x1,1 where ny is the number of y1=y (y=0,1)
(C) Jegy L = = [21/x=y). ( 1/6/y) - (n/x:,2)
   Let Vogil=0 then 14 by = 2114=yrlating
   (' O') = Dy 1 (y i = y) (h (Xin)
```

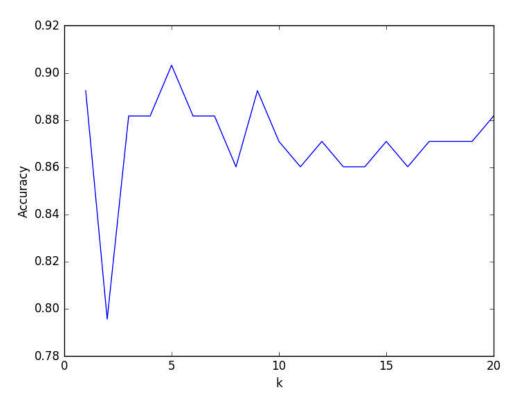
| ++            |    | -++ |
|---------------|----|-----|
| predicted y=0 | 54 | 6   |
| predicted y=1 | 2  | 31  |
| +             |    | _+  |

## 0. 913978494624

(b)



(c)



(d)

