Laplace Snoothns P(A 13) 7 P(BIA) P(A) Span/ham P(S=11Wi) = P(Wils=1) P(S=1) r(w;) today is a scert day"

$$P(w_{i}|S=1) = P(+oday_{i}|S_{i}, x_{i}, y_{i}|J_{i}, J_{i}, x_{i})$$

$$= P(+oday_{i}|S=1) P(iS|S=1) - P(day_{i}|S=1)$$

$$= P(+oday_{i}|S=1) = 0$$

$$= P(S=1|w_{i}) = 0$$

$$= P(S=1|w_{i}) = 0$$

$$= P(w_{i}|C) = \#wards + K$$

$$= 1$$

$$P(dom | S=1) = \frac{20}{1000} (original)$$

$$\frac{20+1}{1000} = \frac{21}{1002}$$

$$K = 0.01 \qquad (Smoothed)$$

$$P(tolog | S=1) = O+ 0.01$$

$$1000 + (0.01)(20)$$

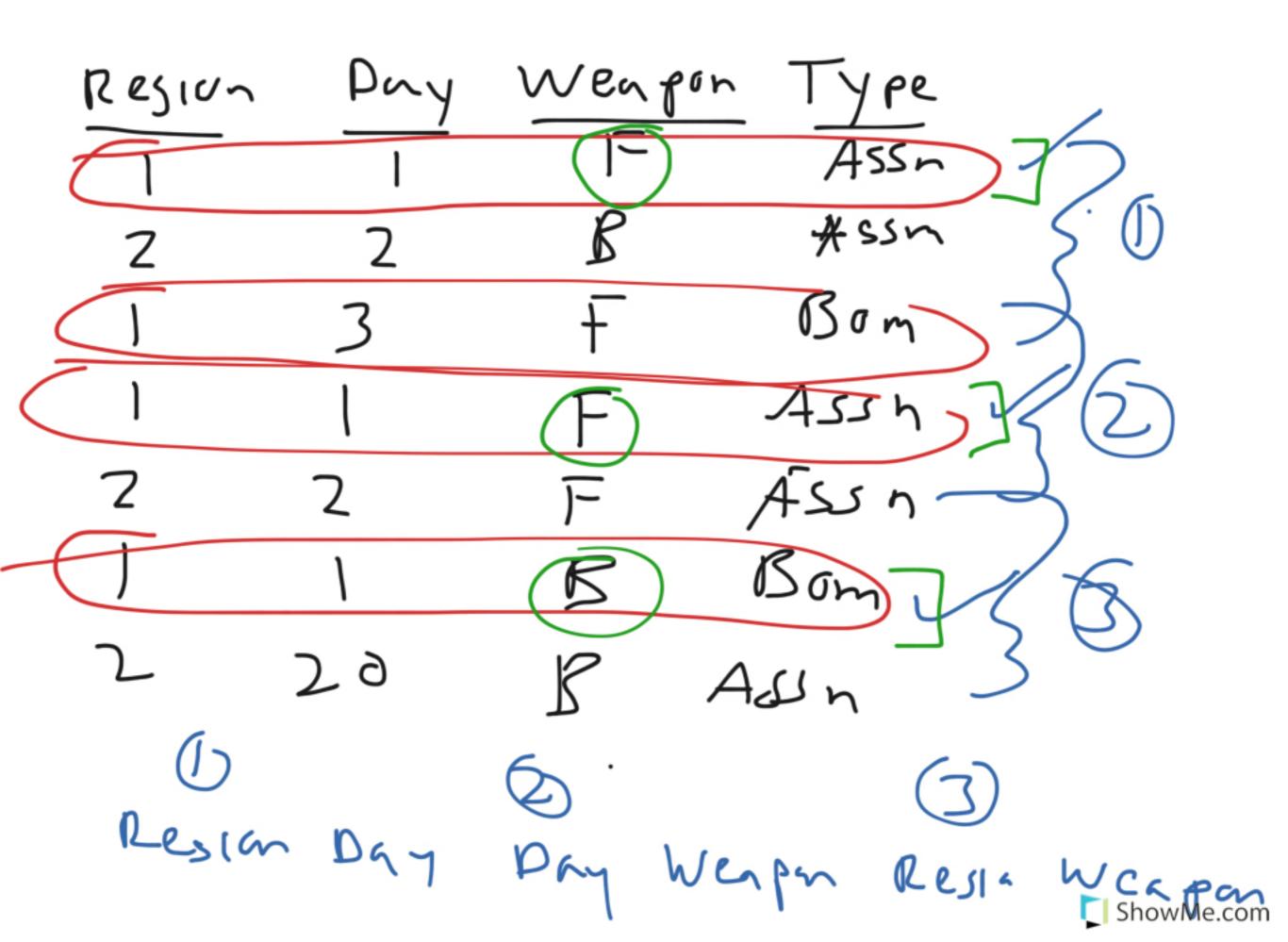
Decision Trew

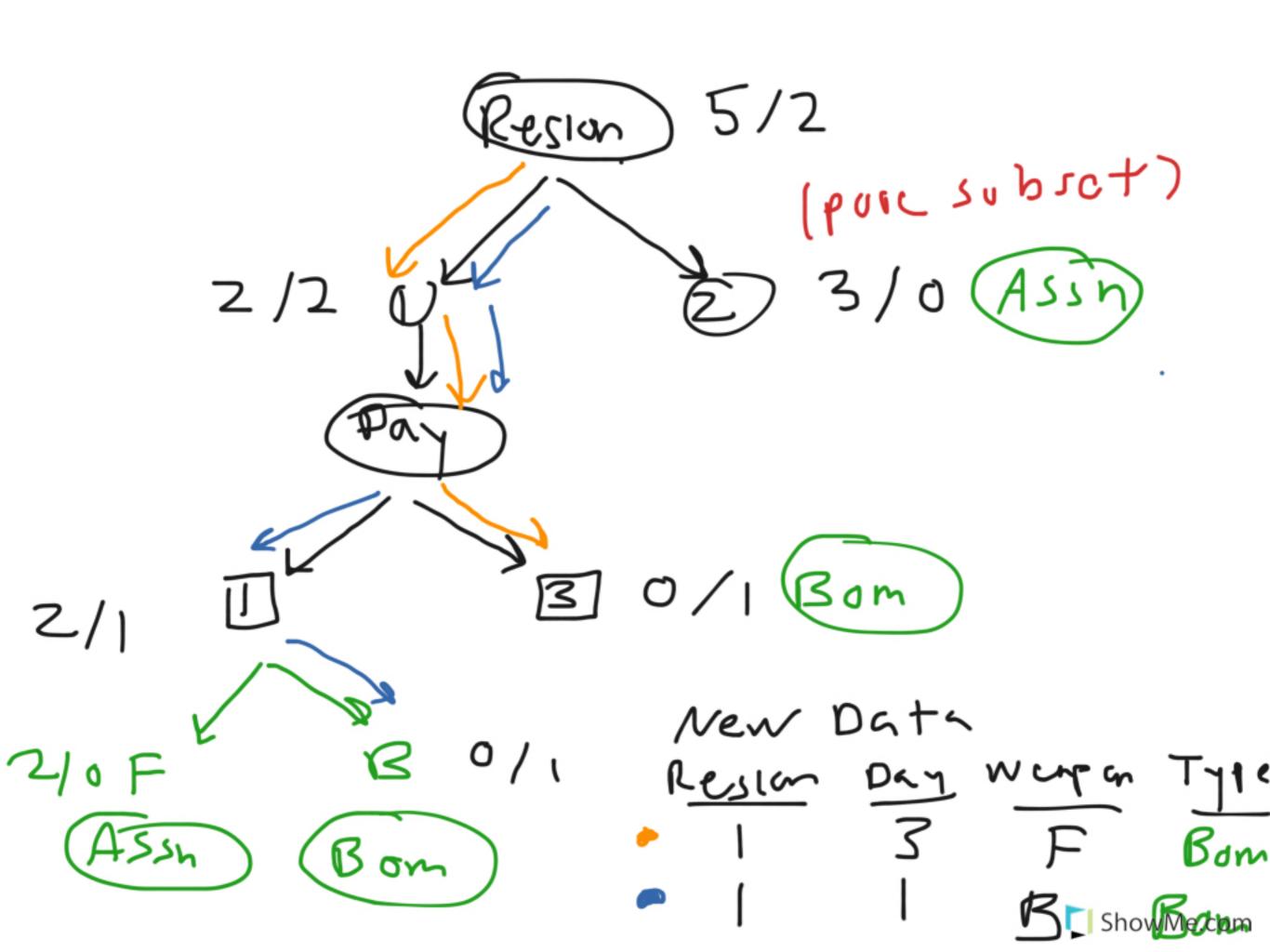
- divide ¿ conquer

- Buill a classific that will
Previol attach type

-> Fratures: Resim, Day, Wearon

Tarset. Attach type (Assni, Bom) (x) = (x)





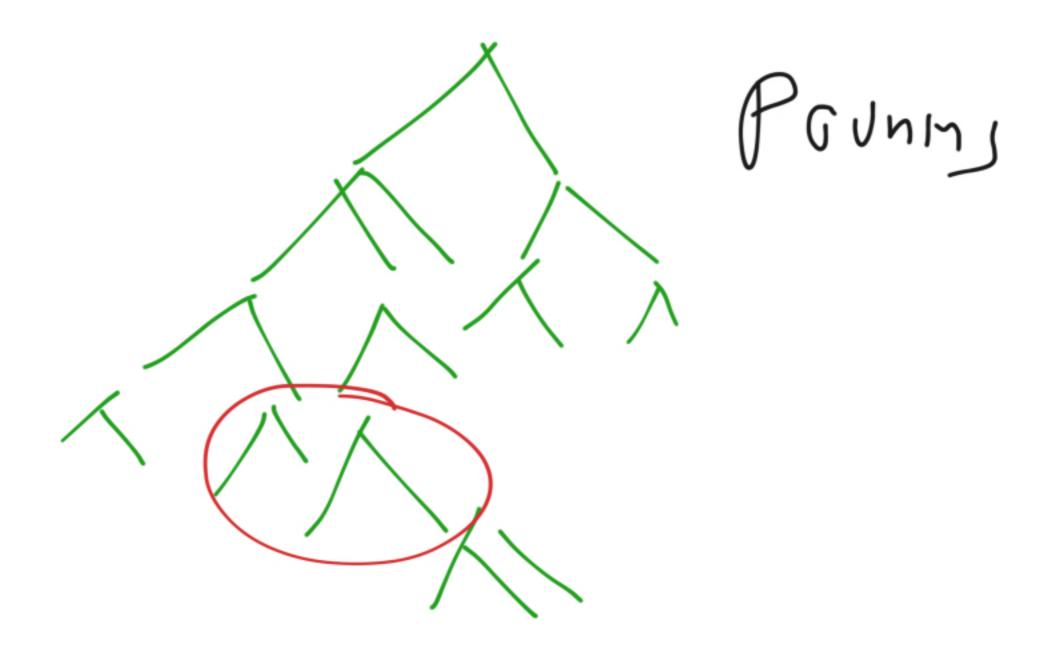
CART/IP3 Algoritm

- -> Chouse the best fighter on,
 the base of information san.
- -> create a new shill have for each feature
- -> for each chird hode

 15 (subset 15 pure) { stop)

 else splithade, example)

Why DJY GR SCC4+ high-performance interpretable/tansparent Wny DT's Stinh O overefit (pruning) (rundan fress) & Computationily intersing (55 m d 12nt parist m)



Resim 1, Dn73, Wengm Jo Ash Resm 1044 Pay/VCAPan Resin/wega Weapon wenpa Dess 4 ShowMe.com

Assn Assn Bun Assn

Ran II Born