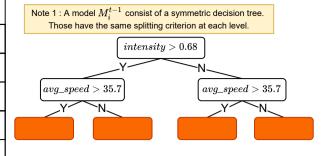
## Step 1 : Generate a permutation $\sigma$ of the dataset

$\sigma$	$y(avg\_power\_comb)$	intensity	$avg\_speed$	type		
2	253	0.7	42	mixed		
4	258	0.83	35.7	sprinter		
1	265	0.84	44.8	sprinter		
3	228	0.62	26.1	climber		
5	242	0.68	33	mixed		



## Step 2 : Sort the dataset in order of (\sigma\) and calculate the models $M_i^{t-1}$ using only $1,\dots,i$ observations of the dataset

σ	$y(avg\_power\_comb)$	intensity	$avg\_speed$	type
1	265	0.84	44.8	sprinter
2	253	0.7	42	mixed
3	228	0.62	26.1	climber
4	258	0.83	35.7	sprinter
5	242	0.68	33	mixed

$$\longrightarrow M_4^{t-1}$$
 Note 1

Step 4 : Calculate the residuals of the i-th observation using the only the knowledge of model  $M_{i-1}^{t-1}$  for the prediction of  $\hat{y}_i$   $\rightarrow r^t(\mathbf{x}_5,y_5) = y_5 - M_4^{t-1}(\mathbf{x}_5)$ 

$$ightharpoonup r^t(\mathbf{x}_5,y_5) = y_5 - M_4^{t-1}(\mathbf{x}_5)$$