Numeric Feature Splits Algorithm

```
// Run this subroutine for each numeric feature at each node of DT induction
Determine Candidate Numeric Splits (set of training instances D, feature X_i)
   C = \{\}
                   // initialize set of candidate splits for feature X_i
    let v_i denote the value of X_i for the j^{th} data point
    sort the dataset using v_i as the key for each data point
   for each pair of adjacent v_i, v_{i+1} in the sorted order
          if the corresponding class labels are different
                    add candidate split X_i \le (v_i + v_{i+1})/2 to C
    return C
```