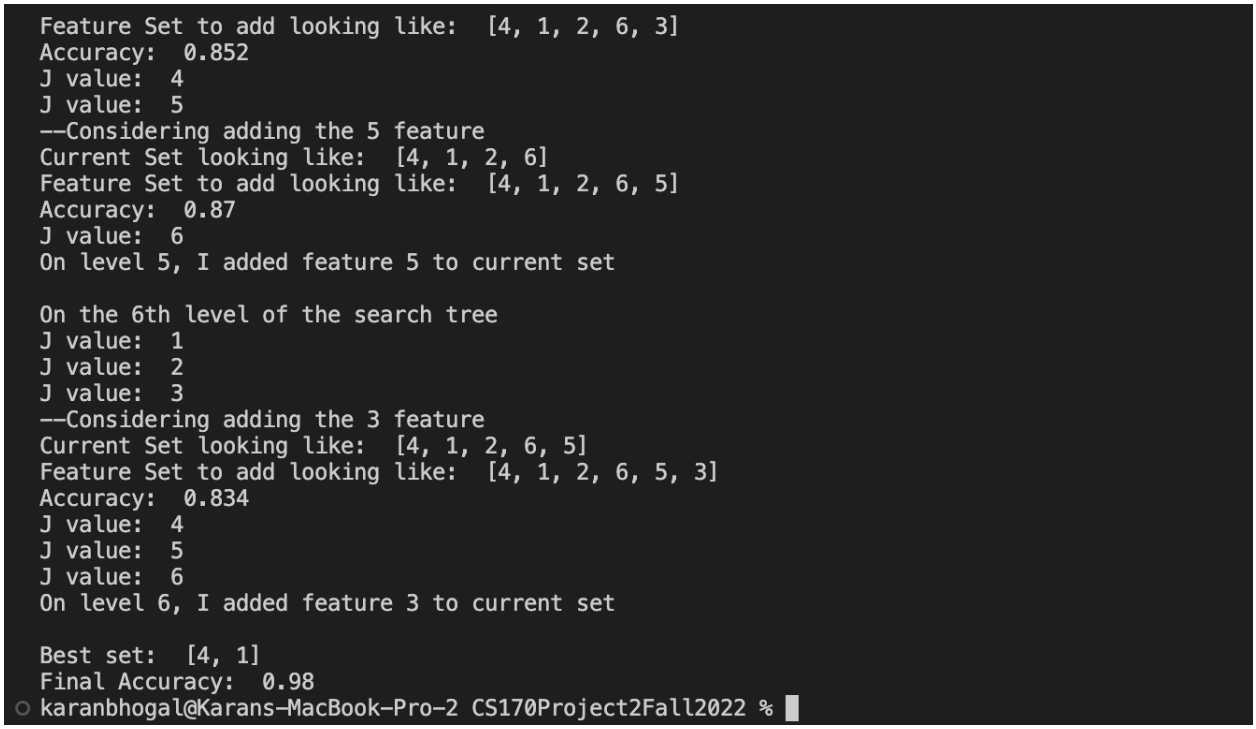
TRACEBACKS FOR THE 4 OUTPUTS BELOW (All the lines my terminal had kept)

Small Data Results FORWARD:



Welcome to Karan's Feature Selection Algorithm
Type in the name of the file to test:
CS170_Small_Data__48.txt
Press 1 for the Forward Selection Algorithm or Press 2 for Backward Elimination
1
Running nearest neighbor with all
On the 1th level of the search tree
J value: 1
--Considering adding the 1 feature
Current Set looking like: []
Feature Set to add looking like: [1]
Accuracy: 0.758
J value: 2
--Considering adding the 2 feature
Current Set looking like: []
Feature Set to add looking like: [2]
Accuracy: 0.706
J value: 3
--Considering adding the 3 feature
Current Set looking like: []
Feature Set to add looking like: [3]

Accuracy: 0.646
J value: 4
--Considering adding the 4 feature
Current Set looking like: []
Feature Set to add looking like: [4]
Accuracy: 0.848
J value: 5
--Considering adding the 5 feature
Current Set looking like: []
Feature Set to add looking like: [5]
Accuracy: 0.692
J value: 6
--Considering adding the 6 feature
Current Set looking like: []
Feature Set to add looking like: [6]
Accuracy: 0.678
On level 1, I added feature 4 to current set

On the 2th level of the search tree
J value: 1
--Considering adding the 1 feature
Current Set looking like: [4]
Feature Set to add looking like: [4, 1]
Accuracy: 0.98
J value: 2
--Considering adding the 2 feature
Current Set looking like: [4]
Feature Set to add looking like: [4, 2]
Accuracy: 0.846
J value: 3
--Considering adding the 3 feature
Current Set looking like: [4]
Feature Set to add looking like: [4, 3]
Accuracy: 0.836
J value: 4
J value: 5
--Considering adding the 5 feature
Current Set looking like: [4]
Feature Set to add looking like: [4, 5]
Accuracy: 0.832
J value: 6
--Considering adding the 6 feature
Current Set looking like: [4]
Feature Set to add looking like: [4, 6]

Accuracy: 0.816
On level 2, I added feature 1 to current set

On the 3th level of the search tree
J value: 1
J value: 2
--Considering adding the 2 feature
Current Set looking like: [4, 1]
Feature Set to add looking like: [4, 1, 2]
Accuracy: 0.942
J value: 3
--Considering adding the 3 feature
Current Set looking like: [4, 1]
Feature Set to add looking like: [4, 1, 3]
Accuracy: 0.924
J value: 4
J value: 5
--Considering adding the 5 feature
Current Set looking like: [4, 1]
Feature Set to add looking like: [4, 1, 5]
Accuracy: 0.934
J value: 6
--Considering adding the 6 feature
Current Set looking like: [4, 1]
Feature Set to add looking like: [4, 1, 6]
Accuracy: 0.94
On level 3, I added feature 2 to current set

On the 4th level of the search tree
J value: 1
J value: 2
J value: 3
--Considering adding the 3 feature
Current Set looking like: [4, 1, 2]
Feature Set to add looking like: [4, 1, 2, 3]
Accuracy: 0.9
J value: 4
J value: 5
--Considering adding the 5 feature
Current Set looking like: [4, 1, 2]
Feature Set to add looking like: [4, 1, 2, 5]
Accuracy: 0.894
J value: 6
--Considering adding the 6 feature

Current Set looking like: [4, 1, 2]
Feature Set to add looking like: [4, 1, 2, 6]
Accuracy: 0.91
On level 4, I added feature 6 to current set

On the 5th level of the search tree
J value: 1
J value: 2
J value: 3
--Considering adding the 3 feature
Current Set looking like: [4, 1, 2, 6]
Feature Set to add looking like: [4, 1, 2, 6, 3]
Accuracy: 0.852
J value: 4
J value: 5
--Considering adding the 5 feature
Current Set looking like: [4, 1, 2, 6]
Feature Set to add looking like: [4, 1, 2, 6, 5]
Accuracy: 0.87
J value: 6
On level 5, I added feature 5 to current set

On the 6th level of the search tree
J value: 1
J value: 2
J value: 3
--Considering adding the 3 feature
Current Set looking like: [4, 1, 2, 6, 5]
Feature Set to add looking like: [4, 1, 2, 6, 5, 3]
Accuracy: 0.834
J value: 4
J value: 5
J value: 6
On level 6, I added feature 3 to current set

Best set: [4, 1]
Final Accuracy: 0.98

SMALL DATA BACKWARDS TRACE:

Welcome to Karan's Feature Selection Algorithm
Type in the name of the file to test:
CS170_Small_Data__48.txt
Press 1 for the Forward Selection Algorithm or Press 2 for Backward Elimination
2
Running nearest neighbor with all
On the 1th level of the search tree
--Considering removing the 1 feature
Current Set looking like: [1, 2, 3, 4, 5, 6]
Feature Set to remove looking like: [2, 3, 4, 5, 6]
Accuracy: 0.774
--Considering removing the 2 feature
Current Set looking like: [1, 2, 3, 4, 5, 6]
Feature Set to remove looking like: [1, 3, 4, 5, 6]
Accuracy: 0.828
--Considering removing the 3 feature
Current Set looking like: [1, 2, 3, 4, 5, 6]
Feature Set to remove looking like: [1, 2, 4, 5, 6]
Accuracy: 0.87
--Considering removing the 4 feature
Current Set looking like: [1, 2, 3, 4, 5, 6]
Feature Set to remove looking like: [1, 2, 3, 5, 6]
Accuracy: 0.708
--Considering removing the 5 feature
Current Set looking like: [1, 2, 3, 4, 5, 6]
Feature Set to remove looking like: [1, 2, 3, 4, 6]
Accuracy: 0.852
--Considering removing the 6 feature
Current Set looking like: [1, 2, 3, 4, 5, 6]
Feature Set to remove looking like: [1, 2, 3, 4, 5]
Accuracy: 0.838
On level 1, I removed feature 3 to current set

On the 2th level of the search tree
--Considering removing the 1 feature
Current Set looking like: [1, 2, 4, 5, 6]
Feature Set to remove looking like: [2, 4, 5, 6]
Accuracy: 0.77
--Considering removing the 2 feature
Current Set looking like: [1, 2, 4, 5, 6]
Feature Set to remove looking like: [1, 4, 5, 6]
Accuracy: 0.892

--Considering removing the 4 feature
Current Set looking like: [1, 2, 4, 5, 6]
Feature Set to remove looking like: [1, 2, 5, 6]
Accuracy: 0.714
--Considering removing the 5 feature
Current Set looking like: [1, 2, 4, 5, 6]
Feature Set to remove looking like: [1, 2, 4, 6]
Accuracy: 0.91
--Considering removing the 6 feature
Current Set looking like: [1, 2, 4, 5, 6]
Feature Set to remove looking like: [1, 2, 4, 5]
Accuracy: 0.894
On level 2, I removed feature 5 to current set

On the 3th level of the search tree
--Considering removing the 1 feature
Current Set looking like: [1, 2, 4, 6]
Feature Set to remove looking like: [2, 4, 6]
Accuracy: 0.836
--Considering removing the 2 feature
Current Set looking like: [1, 2, 4, 6]
Feature Set to remove looking like: [1, 4, 6]
Accuracy: 0.94
--Considering removing the 4 feature
Current Set looking like: [1, 2, 4, 6]
Feature Set to remove looking like: [1, 2, 6]
Accuracy: 0.772
--Considering removing the 6 feature
Current Set looking like: [1, 2, 4, 6]
Feature Set to remove looking like: [1, 2, 4]
Accuracy: 0.942
On level 3, I removed feature 6 to current set

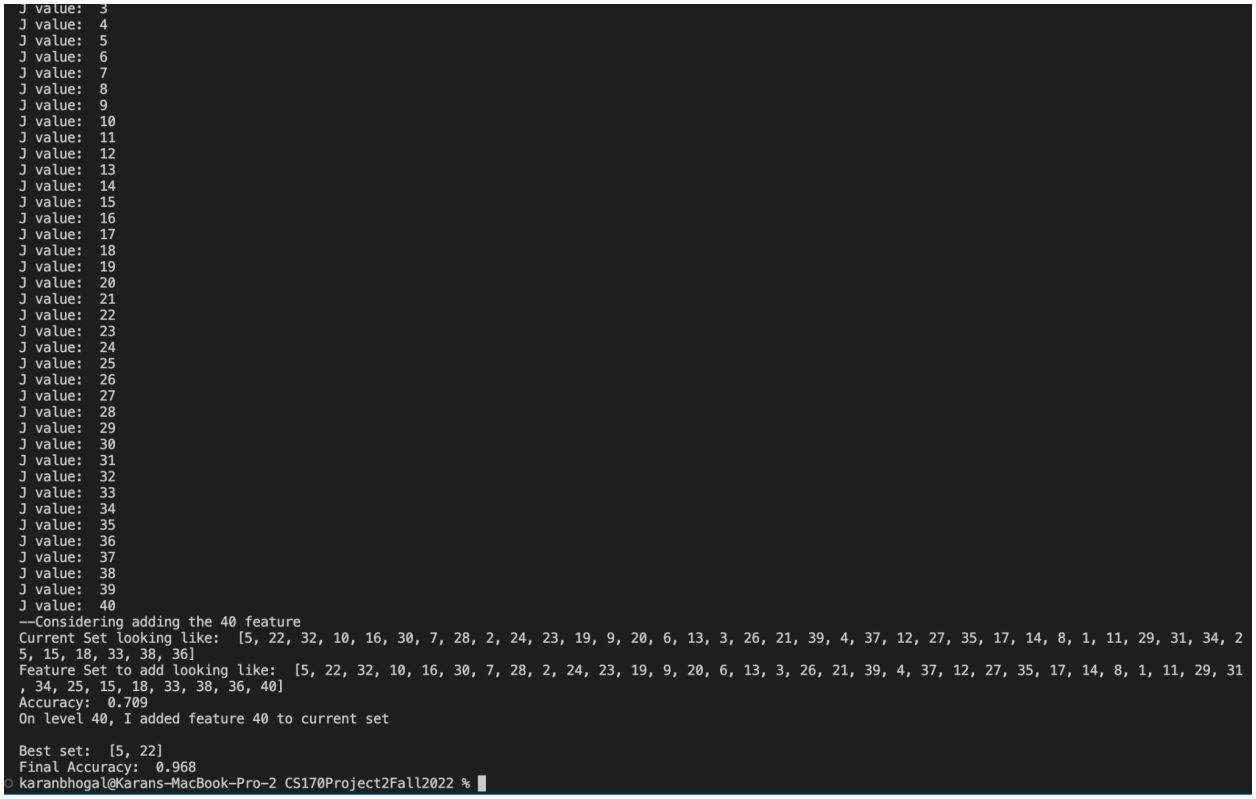
On the 4th level of the search tree
--Considering removing the 1 feature
Current Set looking like: [1, 2, 4]
Feature Set to remove looking like: [2, 4]
Accuracy: 0.846
--Considering removing the 2 feature
Current Set looking like: [1, 2, 4]
Feature Set to remove looking like: [1, 4]
Accuracy: 0.98
--Considering removing the 4 feature
Current Set looking like: [1, 2, 4]

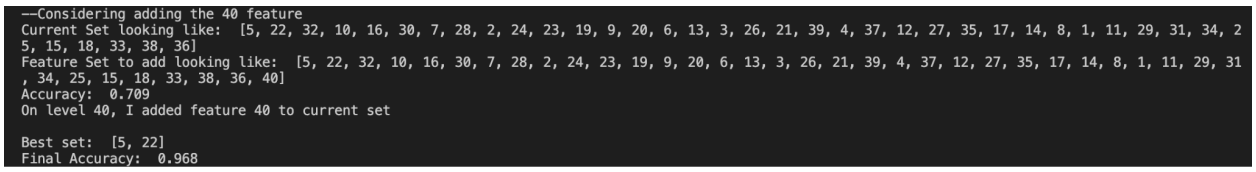
Feature Set to remove looking like: [1, 2]
Accuracy: 0.744
On level 4, I removed feature 2 to current set

On the 5th level of the search tree
--Considering removing the 1 feature
Current Set looking like: [1, 4]
Feature Set to remove looking like: [4]
Accuracy: 0.848
--Considering removing the 4 feature
Current Set looking like: [1, 4]
Feature Set to remove looking like: [1]
Accuracy: 0.758
On level 5, I removed feature 1 to current set

On the 6th level of the search tree
--Considering removing the 4 feature
Current Set looking like: [4]
Feature Set to remove looking like: []
Accuracy: 0.806
On level 6, I removed feature 4 to current set

Best set: [1, 4]
Final Accuracy: 0.98





LARGE DATA FORWARD:
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 33]
Accuracy: 0.732
J value: 34
--Considering adding the 34 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 34]
Accuracy: 0.733
J value: 35
J value: 36
--Considering adding the 36 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17]

Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 36]
Accuracy: 0.731
J value: 37
J value: 38
--Considering adding the 38 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 38]
Accuracy: 0.72
J value: 39
J value: 40
--Considering adding the 40 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 40]
Accuracy: 0.727
On level 27, I added feature 14 to current set

On the 28th level of the search tree
J value: 1
--Considering adding the 1 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 1]
Accuracy: 0.727
J value: 2
J value: 3
J value: 4
J value: 5
J value: 6
J value: 7
J value: 8
--Considering adding the 8 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8]
Accuracy: 0.739
J value: 9
J value: 10

J value: 11
--Considering adding the 11 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 11]
Accuracy: 0.737
J value: 12
J value: 13
J value: 14
J value: 15
--Considering adding the 15 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 15]
Accuracy: 0.718
J value: 16
J value: 17
J value: 18
--Considering adding the 18 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 18]
Accuracy: 0.715
J value: 19
J value: 20
J value: 21
J value: 22
J value: 23
J value: 24
J value: 25
--Considering adding the 25 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 25]
Accuracy: 0.729
J value: 26
J value: 27
J value: 28
J value: 29
--Considering adding the 29 feature

Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 29]
Accuracy: 0.719
J value: 30
J value: 31
--Considering adding the 31 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 31]
Accuracy: 0.711
J value: 32
J value: 33
--Considering adding the 33 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 33]
Accuracy: 0.721
J value: 34
--Considering adding the 34 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 34]
Accuracy: 0.721
J value: 35
J value: 36
--Considering adding the 36 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 36]
Accuracy: 0.728
J value: 37
J value: 38
--Considering adding the 38 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 38]
Accuracy: 0.717

J value: 39
J value: 40
--Considering adding the 40 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 40]
Accuracy: 0.729
On level 28, I added feature 8 to current set

On the 29th level of the search tree
J value: 1
--Considering adding the 1 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1]
Accuracy: 0.74
J value: 2
J value: 3
J value: 4
J value: 5
J value: 6
J value: 7
J value: 8
J value: 9
J value: 10
J value: 11
--Considering adding the 11 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 11]
Accuracy: 0.739
J value: 12
J value: 13
J value: 14
J value: 15
--Considering adding the 15 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 15]
Accuracy: 0.722

J value: 16
J value: 17
J value: 18
--Considering adding the 18 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 18]
Accuracy: 0.725
J value: 19
J value: 20
J value: 21
J value: 22
J value: 23
J value: 24
J value: 25
--Considering adding the 25 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 25]
Accuracy: 0.724
J value: 26
J value: 27
J value: 28
J value: 29
--Considering adding the 29 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 29]
Accuracy: 0.726
J value: 30
J value: 31
--Considering adding the 31 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 31]
Accuracy: 0.719
J value: 32
J value: 33
--Considering adding the 33 feature

Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 33]
Accuracy: 0.724
J value: 34
--Considering adding the 34 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 34]
Accuracy: 0.727
J value: 35
J value: 36
--Considering adding the 36 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 36]
Accuracy: 0.723
J value: 37
J value: 38
--Considering adding the 38 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 38]
Accuracy: 0.724
J value: 39
J value: 40
--Considering adding the 40 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 40]
Accuracy: 0.725
On level 29, I added feature 1 to current set

On the 30th level of the search tree
J value: 1
J value: 2
J value: 3
J value: 4
J value: 5

J value: 6
J value: 7
J value: 8
J value: 9
J value: 10
J value: 11
--Considering adding the 11 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11]
Accuracy: 0.746
J value: 12
J value: 13
J value: 14
J value: 15
--Considering adding the 15 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 15]
Accuracy: 0.726
J value: 16
J value: 17
J value: 18
--Considering adding the 18 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 18]
Accuracy: 0.723
J value: 19
J value: 20
J value: 21
J value: 22
J value: 23
J value: 24
J value: 25
--Considering adding the 25 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 25]
Accuracy: 0.739

J value: 26
J value: 27
J value: 28
J value: 29
--Considering adding the 29 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 29]
Accuracy: 0.726
J value: 30
J value: 31
--Considering adding the 31 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 31]
Accuracy: 0.729
J value: 32
J value: 33
--Considering adding the 33 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 33]
Accuracy: 0.73
J value: 34
--Considering adding the 34 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 34]
Accuracy: 0.723
J value: 35
J value: 36
--Considering adding the 36 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 36]
Accuracy: 0.74
J value: 37
J value: 38
--Considering adding the 38 feature

Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 38]
Accuracy: 0.72
J value: 39
J value: 40
--Considering adding the 40 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 40]
Accuracy: 0.73
On level 30, I added feature 11 to current set

On the 31th level of the search tree
J value: 1
J value: 2
J value: 3
J value: 4
J value: 5
J value: 6
J value: 7
J value: 8
J value: 9
J value: 10
J value: 11
J value: 12
J value: 13
J value: 14
J value: 15
--Considering adding the 15 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 15]
Accuracy: 0.724
J value: 16
J value: 17
J value: 18
--Considering adding the 18 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11]

Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 18]
Accuracy: 0.721
J value: 19
J value: 20
J value: 21
J value: 22
J value: 23
J value: 24
J value: 25
--Considering adding the 25 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 25]
Accuracy: 0.729
J value: 26
J value: 27
J value: 28
J value: 29
--Considering adding the 29 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29]
Accuracy: 0.744
J value: 30
J value: 31
--Considering adding the 31 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 31]
Accuracy: 0.74
J value: 32
J value: 33
--Considering adding the 33 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 33]
Accuracy: 0.736
J value: 34
--Considering adding the 34 feature

Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 34]
Accuracy: 0.725
J value: 35
J value: 36
--Considering adding the 36 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 36]
Accuracy: 0.735
J value: 37
J value: 38
--Considering adding the 38 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 38]
Accuracy: 0.717
J value: 39
J value: 40
--Considering adding the 40 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 40]
Accuracy: 0.724
On level 31, I added feature 29 to current set

On the 32th level of the search tree
J value: 1
J value: 2
J value: 3
J value: 4
J value: 5
J value: 6
J value: 7
J value: 8
J value: 9
J value: 10
J value: 11
J value: 12

J value: 13
J value: 14
J value: 15
--Considering adding the 15 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 15]
Accuracy: 0.727
J value: 16
J value: 17
J value: 18
--Considering adding the 18 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 18]
Accuracy: 0.719
J value: 19
J value: 20
J value: 21
J value: 22
J value: 23
J value: 24
J value: 25
--Considering adding the 25 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 25]
Accuracy: 0.725
J value: 26
J value: 27
J value: 28
J value: 29
J value: 30
J value: 31
--Considering adding the 31 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31]
Accuracy: 0.743
J value: 32

J value: 33
--Considering adding the 33 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 33]
Accuracy: 0.737
J value: 34
--Considering adding the 34 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 34]
Accuracy: 0.736
J value: 35
J value: 36
--Considering adding the 36 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 36]
Accuracy: 0.731
J value: 37
J value: 38
--Considering adding the 38 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 38]
Accuracy: 0.716
J value: 39
J value: 40
--Considering adding the 40 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 40]
Accuracy: 0.726
On level 32, I added feature 31 to current set

On the 33th level of the search tree
J value: 1
J value: 2
J value: 3

J value: 4
J value: 5
J value: 6
J value: 7
J value: 8
J value: 9
J value: 10
J value: 11
J value: 12
J value: 13
J value: 14
J value: 15
--Considering adding the 15 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 15]
Accuracy: 0.722
J value: 16
J value: 17
J value: 18
--Considering adding the 18 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 18]
Accuracy: 0.721
J value: 19
J value: 20
J value: 21
J value: 22
J value: 23
J value: 24
J value: 25
--Considering adding the 25 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 25]
Accuracy: 0.734
J value: 26
J value: 27
J value: 28
J value: 29

J value: 30
J value: 31
J value: 32
J value: 33
--Considering adding the 33 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 33]
Accuracy: 0.714
J value: 34
--Considering adding the 34 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34]
Accuracy: 0.735
J value: 35
J value: 36
--Considering adding the 36 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 36]
Accuracy: 0.716
J value: 37
J value: 38
--Considering adding the 38 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 38]
Accuracy: 0.721
J value: 39
J value: 40
--Considering adding the 40 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 40]
Accuracy: 0.715
On level 33, I added feature 34 to current set

On the 34th level of the search tree

J value: 1
J value: 2
J value: 3
J value: 4
J value: 5
J value: 6
J value: 7
J value: 8
J value: 9
J value: 10
J value: 11
J value: 12
J value: 13
J value: 14
J value: 15
--Considering adding the 15 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 15]
Accuracy: 0.725
J value: 16
J value: 17
J value: 18
--Considering adding the 18 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 18]
Accuracy: 0.719
J value: 19
J value: 20
J value: 21
J value: 22
J value: 23
J value: 24
J value: 25
--Considering adding the 25 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25]
Accuracy: 0.74
J value: 26

J value: 27
J value: 28
J value: 29
J value: 30
J value: 31
J value: 32
J value: 33
--Considering adding the 33 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 33]
Accuracy: 0.719
J value: 34
J value: 35
J value: 36
--Considering adding the 36 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 36]
Accuracy: 0.72
J value: 37
J value: 38
--Considering adding the 38 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 38]
Accuracy: 0.714
J value: 39
J value: 40
--Considering adding the 40 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 40]
Accuracy: 0.713
On level 34, I added feature 25 to current set

On the 35th level of the search tree
J value: 1
J value: 2
J value: 3

J value: 4
J value: 5
J value: 6
J value: 7
J value: 8
J value: 9
J value: 10
J value: 11
J value: 12
J value: 13
J value: 14
J value: 15
--Considering adding the 15 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 15]
Accuracy: 0.733
J value: 16
J value: 17
J value: 18
--Considering adding the 18 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 18]
Accuracy: 0.717
J value: 19
J value: 20
J value: 21
J value: 22
J value: 23
J value: 24
J value: 25
J value: 26
J value: 27
J value: 28
J value: 29
J value: 30
J value: 31
J value: 32
J value: 33
--Considering adding the 33 feature

Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 33]
Accuracy: 0.728
J value: 34
J value: 35
J value: 36
--Considering adding the 36 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 36]
Accuracy: 0.728
J value: 37
J value: 38
--Considering adding the 38 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 38]
Accuracy: 0.716
J value: 39
J value: 40
--Considering adding the 40 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 40]
Accuracy: 0.716
On level 35, I added feature 15 to current set

On the 36th level of the search tree
J value: 1
J value: 2
J value: 3
J value: 4
J value: 5
J value: 6
J value: 7
J value: 8
J value: 9
J value: 10
J value: 11

J value: 12
J value: 13
J value: 14
J value: 15
J value: 16
J value: 17
J value: 18
--Considering adding the 18 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 15]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 15, 18]
Accuracy: 0.727
J value: 19
J value: 20
J value: 21
J value: 22
J value: 23
J value: 24
J value: 25
J value: 26
J value: 27
J value: 28
J value: 29
J value: 30
J value: 31
J value: 32
J value: 33
--Considering adding the 33 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 15]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 15, 33]
Accuracy: 0.718
J value: 34
J value: 35
J value: 36
--Considering adding the 36 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 15]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 15, 36]
Accuracy: 0.712
J value: 37

J value: 38
--Considering adding the 38 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 15]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 15, 38]
Accuracy: 0.708
J value: 39
J value: 40
--Considering adding the 40 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 15]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 15, 40]
Accuracy: 0.721
On level 36, I added feature 18 to current set

On the 37th level of the search tree
J value: 1
J value: 2
J value: 3
J value: 4
J value: 5
J value: 6
J value: 7
J value: 8
J value: 9
J value: 10
J value: 11
J value: 12
J value: 13
J value: 14
J value: 15
J value: 16
J value: 17
J value: 18
J value: 19
J value: 20
J value: 21
J value: 22
J value: 23
J value: 24
J value: 25
J value: 26

J value: 27
J value: 28
J value: 29
J value: 30
J value: 31
J value: 32
J value: 33
--Considering adding the 33 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 15, 18]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 15, 18, 33]
Accuracy: 0.724
J value: 34
J value: 35
J value: 36
--Considering adding the 36 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 15, 18]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 15, 18, 36]
Accuracy: 0.71
J value: 37
J value: 38
--Considering adding the 38 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 15, 18]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 15, 18, 38]
Accuracy: 0.706
J value: 39
J value: 40
--Considering adding the 40 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 15, 18]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 15, 18, 40]
Accuracy: 0.709
On level 37, I added feature 33 to current set

On the 38th level of the search tree
J value: 1
J value: 2
J value: 3

J value: 4
J value: 5
J value: 6
J value: 7
J value: 8
J value: 9
J value: 10
J value: 11
J value: 12
J value: 13
J value: 14
J value: 15
J value: 16
J value: 17
J value: 18
J value: 19
J value: 20
J value: 21
J value: 22
J value: 23
J value: 24
J value: 25
J value: 26
J value: 27
J value: 28
J value: 29
J value: 30
J value: 31
J value: 32
J value: 33
J value: 34
J value: 35
J value: 36
--Considering adding the 36 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 15, 18, 33]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 15, 18, 33, 36]
Accuracy: 0.711
J value: 37
J value: 38
--Considering adding the 38 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 15, 18, 33]

Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 15, 18, 33, 38]
Accuracy: 0.716
J value: 39
J value: 40
--Considering adding the 40 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 15, 18, 33]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 15, 18, 33, 40]
Accuracy: 0.708
On level 38, I added feature 38 to current set

On the 39th level of the search tree
J value: 1
J value: 2
J value: 3
J value: 4
J value: 5
J value: 6
J value: 7
J value: 8
J value: 9
J value: 10
J value: 11
J value: 12
J value: 13
J value: 14
J value: 15
J value: 16
J value: 17
J value: 18
J value: 19
J value: 20
J value: 21
J value: 22
J value: 23
J value: 24
J value: 25
J value: 26
J value: 27
J value: 28
J value: 29
J value: 30

J value: 31
J value: 32
J value: 33
J value: 34
J value: 35
J value: 36
--Considering adding the 36 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 15, 18, 33, 38]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 15, 18, 33, 38, 36]
Accuracy: 0.721
J value: 37
J value: 38
J value: 39
J value: 40
--Considering adding the 40 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 15, 18, 33, 38]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 15, 18, 33, 38, 40]
Accuracy: 0.705
On level 39, I added feature 36 to current set

On the 40th level of the search tree
J value: 1
J value: 2
J value: 3
J value: 4
J value: 5
J value: 6
J value: 7
J value: 8
J value: 9
J value: 10
J value: 11
J value: 12
J value: 13
J value: 14
J value: 15
J value: 16
J value: 17
J value: 18
J value: 19

J value: 20
J value: 21
J value: 22
J value: 23
J value: 24
J value: 25
J value: 26
J value: 27
J value: 28
J value: 29
J value: 30
J value: 31
J value: 32
J value: 33
J value: 34
J value: 35
J value: 36
J value: 37
J value: 38
J value: 39
J value: 40
--Considering adding the 40 feature
Current Set looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 15, 18, 33, 38, 36]
Feature Set to add looking like: [5, 22, 32, 10, 16, 30, 7, 28, 2, 24, 23, 19, 9, 20, 6, 13, 3, 26, 21, 39, 4, 37, 12, 27, 35, 17, 14, 8, 1, 11, 29, 31, 34, 25, 15, 18, 33, 38, 36, 40]
Accuracy: 0.709
On level 40, I added feature 40 to current set

Best set: [5, 22]
Final Accuracy: 0.968

Backward Selection LARGE DATA SET:

--Considering removing the 24 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 33, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 28, 32, 33, 34, 35, 37, 38]
Accuracy: 0.765
--Considering removing the 28 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 33, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 32, 33, 34, 35, 37, 38]
Accuracy: 0.752
--Considering removing the 32 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 33, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 33, 34, 35, 37, 38]
Accuracy: 0.764
--Considering removing the 33 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 33, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Accuracy: 0.767
--Considering removing the 34 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 33, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 33, 35, 37, 38]
Accuracy: 0.743
--Considering removing the 35 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 33, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 33, 34, 37, 38]
Accuracy: 0.745
--Considering removing the 37 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 33, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 33, 34, 35, 38]
Accuracy: 0.756
--Considering removing the 38 feature

Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 33, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 33, 34, 35, 37]
Accuracy: 0.761
On level 19, I removed feature 33 to current set

On the 20th level of the search tree
--Considering removing the 1 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Accuracy: 0.764
--Considering removing the 3 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Accuracy: 0.77
--Considering removing the 4 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Accuracy: 0.742
--Considering removing the 5 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Accuracy: 0.739
--Considering removing the 8 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Accuracy: 0.75
--Considering removing the 10 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Accuracy: 0.765

--Considering removing the 11 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Accuracy: 0.757
--Considering removing the 13 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Accuracy: 0.752
--Considering removing the 15 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Accuracy: 0.766
--Considering removing the 16 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Accuracy: 0.753
--Considering removing the 17 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Accuracy: 0.741
--Considering removing the 18 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Accuracy: 0.751
--Considering removing the 21 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 24, 28, 32, 34, 35, 37, 38]
Accuracy: 0.782
--Considering removing the 23 feature

Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 24, 28, 32, 34, 35, 37, 38]
Accuracy: 0.766
--Considering removing the 24 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 28, 32, 34, 35, 37, 38]
Accuracy: 0.766
--Considering removing the 28 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 32, 34, 35, 37, 38]
Accuracy: 0.751
--Considering removing the 32 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 34, 35, 37, 38]
Accuracy: 0.761
--Considering removing the 34 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 35, 37, 38]
Accuracy: 0.761
--Considering removing the 35 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 37, 38]
Accuracy: 0.736
--Considering removing the 37 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 38]
Accuracy: 0.762
--Considering removing the 38 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37, 38]

Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 21, 23, 24, 28, 32, 34, 35, 37]
Accuracy: 0.762
On level 20, I removed feature 21 to current set

On the 21th level of the search tree
--Considering removing the 1 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 24, 28, 32, 34, 35, 37, 38]
Accuracy: 0.758
--Considering removing the 3 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 24, 28, 32, 34, 35, 37, 38]
Accuracy: 0.763
--Considering removing the 4 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 24, 28, 32, 34, 35, 37, 38]
Accuracy: 0.752
--Considering removing the 5 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 8, 10, 11, 13, 15, 16, 17, 18, 23, 24, 28, 32, 34, 35, 37, 38]
Accuracy: 0.752
--Considering removing the 8 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 10, 11, 13, 15, 16, 17, 18, 23, 24, 28, 32, 34, 35, 37, 38]
Accuracy: 0.751
--Considering removing the 10 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 11, 13, 15, 16, 17, 18, 23, 24, 28, 32, 34, 35, 37, 38]
Accuracy: 0.76
--Considering removing the 11 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 13, 15, 16, 17, 18, 23, 24, 28, 32, 34, 35, 37, 38]
Accuracy: 0.751
--Considering removing the 13 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 24, 28, 32, 34, 35, 37, 38]

Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 15, 16, 17, 18, 23, 24, 28, 32, 34, 35, 37, 38]
Accuracy: 0.76
--Considering removing the 15 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 16, 17, 18, 23, 24, 28, 32, 34, 35, 37, 38]
Accuracy: 0.746
--Considering removing the 16 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 17, 18, 23, 24, 28, 32, 34, 35, 37, 38]
Accuracy: 0.759
--Considering removing the 17 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 18, 23, 24, 28, 32, 34, 35, 37, 38]
Accuracy: 0.742
--Considering removing the 18 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 23, 24, 28, 32, 34, 35, 37, 38]
Accuracy: 0.76
--Considering removing the 23 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 24, 28, 32, 34, 35, 37, 38]
Accuracy: 0.751
--Considering removing the 24 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37, 38]
Accuracy: 0.771
--Considering removing the 28 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 24, 32, 34, 35, 37, 38]
Accuracy: 0.752
--Considering removing the 32 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 24, 28, 34, 35, 37, 38]
Accuracy: 0.768
--Considering removing the 34 feature

Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 24, 28, 32, 35, 37, 38]
Accuracy: 0.756
--Considering removing the 35 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 24, 28, 32, 34, 37, 38]
Accuracy: 0.739
--Considering removing the 37 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 24, 28, 32, 34, 35, 38]
Accuracy: 0.759
--Considering removing the 38 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 24, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 24, 28, 32, 34, 35, 37]
Accuracy: 0.753
On level 21, I removed feature 24 to current set

On the 22th level of the search tree
--Considering removing the 1 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37, 38]
Accuracy: 0.762
--Considering removing the 3 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37, 38]
Accuracy: 0.77
--Considering removing the 4 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37, 38]
Accuracy: 0.763
--Considering removing the 5 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37, 38]
Accuracy: 0.743
--Considering removing the 8 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37, 38]

Feature Set to remove looking like: [1, 3, 4, 5, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37, 38]
Accuracy: 0.747
--Considering removing the 10 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37, 38]
Accuracy: 0.759
--Considering removing the 11 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37, 38]
Accuracy: 0.762
--Considering removing the 13 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37, 38]
Accuracy: 0.767
--Considering removing the 15 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 16, 17, 18, 23, 28, 32, 34, 35, 37, 38]
Accuracy: 0.748
--Considering removing the 16 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37, 38]
Accuracy: 0.771
--Considering removing the 17 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 18, 23, 28, 32, 34, 35, 37, 38]
Accuracy: 0.761
--Considering removing the 18 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 23, 28, 32, 34, 35, 37, 38]
Accuracy: 0.768
--Considering removing the 23 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 28, 32, 34, 35, 37, 38]
Accuracy: 0.754
--Considering removing the 28 feature

Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 32, 34, 35, 37, 38]
Accuracy: 0.75
--Considering removing the 32 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 34, 35, 37, 38]
Accuracy: 0.771
--Considering removing the 34 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 35, 37, 38]
Accuracy: 0.751
--Considering removing the 35 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 37, 38]
Accuracy: 0.75
--Considering removing the 37 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 38]
Accuracy: 0.756
--Considering removing the 38 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37, 38]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.774
On level 22, I removed feature 38 to current set

On the 23th level of the search tree
--Considering removing the 1 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.757
--Considering removing the 3 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.762
--Considering removing the 4 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.773

--Considering removing the 5 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.747
--Considering removing the 8 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.763
--Considering removing the 10 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.762
--Considering removing the 11 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.768
--Considering removing the 13 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.768
--Considering removing the 15 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 16, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.764
--Considering removing the 16 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.776
--Considering removing the 17 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.763
--Considering removing the 18 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 23, 28, 32, 34, 35, 37]
Accuracy: 0.771
--Considering removing the 23 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 28, 32, 34, 35, 37]
Accuracy: 0.75
--Considering removing the 28 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 32, 34, 35, 37]
Accuracy: 0.749

--Considering removing the 32 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 34, 35, 37]
Accuracy: 0.766
--Considering removing the 34 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 35, 37]
Accuracy: 0.759
--Considering removing the 35 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 37]
Accuracy: 0.765
--Considering removing the 37 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 16, 17, 18, 23, 28, 32, 34, 35]
Accuracy: 0.771
On level 23, I removed feature 16 to current set

On the 24th level of the search tree
--Considering removing the 1 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [3, 4, 5, 8, 10, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.76
--Considering removing the 3 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 10, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.772
--Considering removing the 4 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 5, 8, 10, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.772
--Considering removing the 5 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 8, 10, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.761
--Considering removing the 8 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 10, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.757
--Considering removing the 10 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.775
--Considering removing the 11 feature

Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.774
--Considering removing the 13 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.771
--Considering removing the 15 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.759
--Considering removing the 17 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.753
--Considering removing the 18 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 17, 23, 28, 32, 34, 35, 37]
Accuracy: 0.774
--Considering removing the 23 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 17, 18, 28, 32, 34, 35, 37]
Accuracy: 0.759
--Considering removing the 28 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 17, 18, 23, 32, 34, 35, 37]
Accuracy: 0.753
--Considering removing the 32 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 17, 18, 23, 28, 34, 35, 37]
Accuracy: 0.762
--Considering removing the 34 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 17, 18, 23, 28, 32, 35, 37]
Accuracy: 0.762
--Considering removing the 35 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 17, 18, 23, 28, 32, 34, 37]
Accuracy: 0.762
--Considering removing the 37 feature
Current Set looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 10, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35]
Accuracy: 0.762
On level 24, I removed feature 10 to current set

On the 25th level of the search tree
--Considering removing the 1 feature
Current Set looking like: [1, 3, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [3, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.759
--Considering removing the 3 feature
Current Set looking like: [1, 3, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.78
--Considering removing the 4 feature
Current Set looking like: [1, 3, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.767
--Considering removing the 5 feature
Current Set looking like: [1, 3, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.739
--Considering removing the 8 feature
Current Set looking like: [1, 3, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.761
--Considering removing the 11 feature
Current Set looking like: [1, 3, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.778
--Considering removing the 13 feature
Current Set looking like: [1, 3, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 11, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.773
--Considering removing the 15 feature
Current Set looking like: [1, 3, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 11, 13, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.772
--Considering removing the 17 feature
Current Set looking like: [1, 3, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 11, 13, 15, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.75
--Considering removing the 18 feature
Current Set looking like: [1, 3, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 11, 13, 15, 17, 23, 28, 32, 34, 35, 37]
Accuracy: 0.78
--Considering removing the 23 feature
Current Set looking like: [1, 3, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]

Feature Set to remove looking like: [1, 3, 4, 5, 8, 11, 13, 15, 17, 18, 28, 32, 34, 35, 37]
Accuracy: 0.753
--Considering removing the 28 feature
Current Set looking like: [1, 3, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 11, 13, 15, 17, 18, 23, 32, 34, 35, 37]
Accuracy: 0.752
--Considering removing the 32 feature
Current Set looking like: [1, 3, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 34, 35, 37]
Accuracy: 0.772
--Considering removing the 34 feature
Current Set looking like: [1, 3, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 35, 37]
Accuracy: 0.768
--Considering removing the 35 feature
Current Set looking like: [1, 3, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 37]
Accuracy: 0.771
--Considering removing the 37 feature
Current Set looking like: [1, 3, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 3, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35]
Accuracy: 0.77
On level 25, I removed feature 3 to current set

On the 26th level of the search tree
--Considering removing the 1 feature
Current Set looking like: [1, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.775
--Considering removing the 4 feature
Current Set looking like: [1, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.766
--Considering removing the 5 feature
Current Set looking like: [1, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.749
--Considering removing the 8 feature
Current Set looking like: [1, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.772
--Considering removing the 11 feature
Current Set looking like: [1, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]

Accuracy: 0.786
--Considering removing the 13 feature
Current Set looking like: [1, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 11, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.766
--Considering removing the 15 feature
Current Set looking like: [1, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 11, 13, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.758
--Considering removing the 17 feature
Current Set looking like: [1, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 11, 13, 15, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.753
--Considering removing the 18 feature
Current Set looking like: [1, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 11, 13, 15, 17, 23, 28, 32, 34, 35, 37]
Accuracy: 0.774
--Considering removing the 23 feature
Current Set looking like: [1, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 11, 13, 15, 17, 18, 28, 32, 34, 35, 37]
Accuracy: 0.761
--Considering removing the 28 feature
Current Set looking like: [1, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 11, 13, 15, 17, 18, 23, 32, 34, 35, 37]
Accuracy: 0.746
--Considering removing the 32 feature
Current Set looking like: [1, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 34, 35, 37]
Accuracy: 0.782
--Considering removing the 34 feature
Current Set looking like: [1, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 35, 37]
Accuracy: 0.763
--Considering removing the 35 feature
Current Set looking like: [1, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 37]
Accuracy: 0.76
--Considering removing the 37 feature
Current Set looking like: [1, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 11, 13, 15, 17, 18, 23, 28, 32, 34, 35]
Accuracy: 0.773
On level 26, I removed feature 11 to current set

On the 27th level of the search tree

--Considering removing the 1 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [4, 5, 8, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.78
--Considering removing the 4 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 5, 8, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.774
--Considering removing the 5 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 8, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.764
--Considering removing the 8 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.768
--Considering removing the 13 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.775
--Considering removing the 15 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 13, 17, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.773
--Considering removing the 17 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 13, 15, 18, 23, 28, 32, 34, 35, 37]
Accuracy: 0.768
--Considering removing the 18 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 13, 15, 17, 23, 28, 32, 34, 35, 37]
Accuracy: 0.776
--Considering removing the 23 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 13, 15, 17, 18, 28, 32, 34, 35, 37]
Accuracy: 0.769
--Considering removing the 28 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 32, 34, 35, 37]
Accuracy: 0.762
--Considering removing the 32 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 34, 35, 37]
Accuracy: 0.786

--Considering removing the 34 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 32, 35, 37]
Accuracy: 0.778
--Considering removing the 35 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 32, 34, 37]
Accuracy: 0.768
--Considering removing the 37 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 32, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 32, 34, 35]
Accuracy: 0.773
On level 27, I removed feature 32 to current set

On the 28th level of the search tree
--Considering removing the 1 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [4, 5, 8, 13, 15, 17, 18, 23, 28, 34, 35, 37]
Accuracy: 0.78
--Considering removing the 4 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 5, 8, 13, 15, 17, 18, 23, 28, 34, 35, 37]
Accuracy: 0.766
--Considering removing the 5 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 8, 13, 15, 17, 18, 23, 28, 34, 35, 37]
Accuracy: 0.766
--Considering removing the 8 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 13, 15, 17, 18, 23, 28, 34, 35, 37]
Accuracy: 0.773
--Considering removing the 13 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 15, 17, 18, 23, 28, 34, 35, 37]
Accuracy: 0.761
--Considering removing the 15 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 13, 17, 18, 23, 28, 34, 35, 37]
Accuracy: 0.767
--Considering removing the 17 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 13, 15, 18, 23, 28, 34, 35, 37]
Accuracy: 0.782
--Considering removing the 18 feature

Current Set looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 13, 15, 17, 23, 28, 34, 35, 37]
Accuracy: 0.767
--Considering removing the 23 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 13, 15, 17, 18, 28, 34, 35, 37]
Accuracy: 0.78
--Considering removing the 28 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 34, 35, 37]
Accuracy: 0.772
--Considering removing the 34 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 35, 37]
Accuracy: 0.779
--Considering removing the 35 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 34, 37]
Accuracy: 0.773
--Considering removing the 37 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 13, 15, 17, 18, 23, 28, 34, 35]
Accuracy: 0.773
On level 28, I removed feature 17 to current set

On the 29th level of the search tree
--Considering removing the 1 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [4, 5, 8, 13, 15, 18, 23, 28, 34, 35, 37]
Accuracy: 0.771
--Considering removing the 4 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 5, 8, 13, 15, 18, 23, 28, 34, 35, 37]
Accuracy: 0.757
--Considering removing the 5 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 8, 13, 15, 18, 23, 28, 34, 35, 37]
Accuracy: 0.737
--Considering removing the 8 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 13, 15, 18, 23, 28, 34, 35, 37]
Accuracy: 0.785
--Considering removing the 13 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 18, 23, 28, 34, 35, 37]

Feature Set to remove looking like: [1, 4, 5, 8, 15, 18, 23, 28, 34, 35, 37]
Accuracy: 0.761
--Considering removing the 15 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 13, 18, 23, 28, 34, 35, 37]
Accuracy: 0.766
--Considering removing the 18 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 13, 15, 23, 28, 34, 35, 37]
Accuracy: 0.767
--Considering removing the 23 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 13, 15, 18, 28, 34, 35, 37]
Accuracy: 0.769
--Considering removing the 28 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 13, 15, 18, 23, 34, 35, 37]
Accuracy: 0.758
--Considering removing the 34 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 13, 15, 18, 23, 28, 35, 37]
Accuracy: 0.761
--Considering removing the 35 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 13, 15, 18, 23, 28, 34, 37]
Accuracy: 0.772
--Considering removing the 37 feature
Current Set looking like: [1, 4, 5, 8, 13, 15, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 8, 13, 15, 18, 23, 28, 34, 35]
Accuracy: 0.759
On level 29, I removed feature 8 to current set

On the 30th level of the search tree
--Considering removing the 1 feature
Current Set looking like: [1, 4, 5, 13, 15, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [4, 5, 13, 15, 18, 23, 28, 34, 35, 37]
Accuracy: 0.773
--Considering removing the 4 feature
Current Set looking like: [1, 4, 5, 13, 15, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 5, 13, 15, 18, 23, 28, 34, 35, 37]
Accuracy: 0.777
--Considering removing the 5 feature
Current Set looking like: [1, 4, 5, 13, 15, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 13, 15, 18, 23, 28, 34, 35, 37]

Accuracy: 0.752
--Considering removing the 13 feature
Current Set looking like: [1, 4, 5, 13, 15, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 15, 18, 23, 28, 34, 35, 37]
Accuracy: 0.772
--Considering removing the 15 feature
Current Set looking like: [1, 4, 5, 13, 15, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 13, 18, 23, 28, 34, 35, 37]
Accuracy: 0.785
--Considering removing the 18 feature
Current Set looking like: [1, 4, 5, 13, 15, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 13, 15, 23, 28, 34, 35, 37]
Accuracy: 0.778
--Considering removing the 23 feature
Current Set looking like: [1, 4, 5, 13, 15, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 13, 15, 18, 28, 34, 35, 37]
Accuracy: 0.776
--Considering removing the 28 feature
Current Set looking like: [1, 4, 5, 13, 15, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 13, 15, 18, 23, 34, 35, 37]
Accuracy: 0.771
--Considering removing the 34 feature
Current Set looking like: [1, 4, 5, 13, 15, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 13, 15, 18, 23, 28, 35, 37]
Accuracy: 0.774
--Considering removing the 35 feature
Current Set looking like: [1, 4, 5, 13, 15, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 13, 15, 18, 23, 28, 34, 37]
Accuracy: 0.765
--Considering removing the 37 feature
Current Set looking like: [1, 4, 5, 13, 15, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 13, 15, 18, 23, 28, 34, 35]
Accuracy: 0.782
On level 30, I removed feature 15 to current set

On the 31th level of the search tree
--Considering removing the 1 feature
Current Set looking like: [1, 4, 5, 13, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [4, 5, 13, 18, 23, 28, 34, 35, 37]
Accuracy: 0.777
--Considering removing the 4 feature
Current Set looking like: [1, 4, 5, 13, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 5, 13, 18, 23, 28, 34, 35, 37]
Accuracy: 0.764

--Considering removing the 5 feature
Current Set looking like: [1, 4, 5, 13, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 13, 18, 23, 28, 34, 35, 37]
Accuracy: 0.744
--Considering removing the 13 feature
Current Set looking like: [1, 4, 5, 13, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 18, 23, 28, 34, 35, 37]
Accuracy: 0.771
--Considering removing the 18 feature
Current Set looking like: [1, 4, 5, 13, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 13, 23, 28, 34, 35, 37]
Accuracy: 0.76
--Considering removing the 23 feature
Current Set looking like: [1, 4, 5, 13, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 13, 18, 28, 34, 35, 37]
Accuracy: 0.773
--Considering removing the 28 feature
Current Set looking like: [1, 4, 5, 13, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 13, 18, 23, 34, 35, 37]
Accuracy: 0.767
--Considering removing the 34 feature
Current Set looking like: [1, 4, 5, 13, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 13, 18, 23, 28, 35, 37]
Accuracy: 0.767
--Considering removing the 35 feature
Current Set looking like: [1, 4, 5, 13, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 13, 18, 23, 28, 34, 37]
Accuracy: 0.758
--Considering removing the 37 feature
Current Set looking like: [1, 4, 5, 13, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [1, 4, 5, 13, 18, 23, 28, 34, 35]
Accuracy: 0.769
On level 31, I removed feature 1 to current set

On the 32th level of the search tree
--Considering removing the 4 feature
Current Set looking like: [4, 5, 13, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [5, 13, 18, 23, 28, 34, 35, 37]
Accuracy: 0.76
--Considering removing the 5 feature
Current Set looking like: [4, 5, 13, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [4, 13, 18, 23, 28, 34, 35, 37]
Accuracy: 0.742
--Considering removing the 13 feature

Current Set looking like: [4, 5, 13, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [4, 5, 18, 23, 28, 34, 35, 37]
Accuracy: 0.77
--Considering removing the 18 feature
Current Set looking like: [4, 5, 13, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [4, 5, 13, 23, 28, 34, 35, 37]
Accuracy: 0.771
--Considering removing the 23 feature
Current Set looking like: [4, 5, 13, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [4, 5, 13, 18, 28, 34, 35, 37]
Accuracy: 0.764
--Considering removing the 28 feature
Current Set looking like: [4, 5, 13, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [4, 5, 13, 18, 23, 34, 35, 37]
Accuracy: 0.769
--Considering removing the 34 feature
Current Set looking like: [4, 5, 13, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [4, 5, 13, 18, 23, 28, 35, 37]
Accuracy: 0.775
--Considering removing the 35 feature
Current Set looking like: [4, 5, 13, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [4, 5, 13, 18, 23, 28, 34, 37]
Accuracy: 0.774
--Considering removing the 37 feature
Current Set looking like: [4, 5, 13, 18, 23, 28, 34, 35, 37]
Feature Set to remove looking like: [4, 5, 13, 18, 23, 28, 34, 35]
Accuracy: 0.765
On level 32, I removed feature 34 to current set

On the 33th level of the search tree
--Considering removing the 4 feature
Current Set looking like: [4, 5, 13, 18, 23, 28, 35, 37]
Feature Set to remove looking like: [5, 13, 18, 23, 28, 35, 37]
Accuracy: 0.778
--Considering removing the 5 feature
Current Set looking like: [4, 5, 13, 18, 23, 28, 35, 37]
Feature Set to remove looking like: [4, 13, 18, 23, 28, 35, 37]
Accuracy: 0.74
--Considering removing the 13 feature
Current Set looking like: [4, 5, 13, 18, 23, 28, 35, 37]
Feature Set to remove looking like: [4, 5, 18, 23, 28, 35, 37]
Accuracy: 0.787
--Considering removing the 18 feature
Current Set looking like: [4, 5, 13, 18, 23, 28, 35, 37]

Feature Set to remove looking like: [4, 5, 13, 23, 28, 35, 37]
Accuracy: 0.774
--Considering removing the 23 feature
Current Set looking like: [4, 5, 13, 18, 23, 28, 35, 37]
Feature Set to remove looking like: [4, 5, 13, 18, 28, 35, 37]
Accuracy: 0.768
--Considering removing the 28 feature
Current Set looking like: [4, 5, 13, 18, 23, 28, 35, 37]
Feature Set to remove looking like: [4, 5, 13, 18, 23, 35, 37]
Accuracy: 0.784
--Considering removing the 35 feature
Current Set looking like: [4, 5, 13, 18, 23, 28, 35, 37]
Feature Set to remove looking like: [4, 5, 13, 18, 23, 28, 37]
Accuracy: 0.768
--Considering removing the 37 feature
Current Set looking like: [4, 5, 13, 18, 23, 28, 35, 37]
Feature Set to remove looking like: [4, 5, 13, 18, 23, 28, 35]
Accuracy: 0.783
On level 33, I removed feature 13 to current set

On the 34th level of the search tree
--Considering removing the 4 feature
Current Set looking like: [4, 5, 18, 23, 28, 35, 37]
Feature Set to remove looking like: [5, 18, 23, 28, 35, 37]
Accuracy: 0.792
--Considering removing the 5 feature
Current Set looking like: [4, 5, 18, 23, 28, 35, 37]
Feature Set to remove looking like: [4, 18, 23, 28, 35, 37]
Accuracy: 0.732
--Considering removing the 18 feature
Current Set looking like: [4, 5, 18, 23, 28, 35, 37]
Feature Set to remove looking like: [4, 5, 23, 28, 35, 37]
Accuracy: 0.786
--Considering removing the 23 feature
Current Set looking like: [4, 5, 18, 23, 28, 35, 37]
Feature Set to remove looking like: [4, 5, 18, 28, 35, 37]
Accuracy: 0.774
--Considering removing the 28 feature
Current Set looking like: [4, 5, 18, 23, 28, 35, 37]
Feature Set to remove looking like: [4, 5, 18, 23, 35, 37]
Accuracy: 0.785
--Considering removing the 35 feature
Current Set looking like: [4, 5, 18, 23, 28, 35, 37]
Feature Set to remove looking like: [4, 5, 18, 23, 28, 37]

Accuracy: 0.791
--Considering removing the 37 feature
Current Set looking like: [4, 5, 18, 23, 28, 35, 37]
Feature Set to remove looking like: [4, 5, 18, 23, 28, 35]
Accuracy: 0.786
On level 34, I removed feature 4 to current set

On the 35th level of the search tree
--Considering removing the 5 feature
Current Set looking like: [5, 18, 23, 28, 35, 37]
Feature Set to remove looking like: [18, 23, 28, 35, 37]
Accuracy: 0.723
--Considering removing the 18 feature
Current Set looking like: [5, 18, 23, 28, 35, 37]
Feature Set to remove looking like: [5, 23, 28, 35, 37]
Accuracy: 0.805
--Considering removing the 23 feature
Current Set looking like: [5, 18, 23, 28, 35, 37]
Feature Set to remove looking like: [5, 18, 28, 35, 37]
Accuracy: 0.799
--Considering removing the 28 feature
Current Set looking like: [5, 18, 23, 28, 35, 37]
Feature Set to remove looking like: [5, 18, 23, 35, 37]
Accuracy: 0.795
--Considering removing the 35 feature
Current Set looking like: [5, 18, 23, 28, 35, 37]
Feature Set to remove looking like: [5, 18, 23, 28, 37]
Accuracy: 0.788
--Considering removing the 37 feature
Current Set looking like: [5, 18, 23, 28, 35, 37]
Feature Set to remove looking like: [5, 18, 23, 28, 35]
Accuracy: 0.8
On level 35, I removed feature 18 to current set

On the 36th level of the search tree
--Considering removing the 5 feature
Current Set looking like: [5, 23, 28, 35, 37]
Feature Set to remove looking like: [23, 28, 35, 37]
Accuracy: 0.718
--Considering removing the 23 feature
Current Set looking like: [5, 23, 28, 35, 37]
Feature Set to remove looking like: [5, 28, 35, 37]
Accuracy: 0.835
--Considering removing the 28 feature

Current Set looking like: [5, 23, 28, 35, 37]
Feature Set to remove looking like: [5, 23, 35, 37]
Accuracy: 0.805
--Considering removing the 35 feature
Current Set looking like: [5, 23, 28, 35, 37]
Feature Set to remove looking like: [5, 23, 28, 37]
Accuracy: 0.835
--Considering removing the 37 feature
Current Set looking like: [5, 23, 28, 35, 37]
Feature Set to remove looking like: [5, 23, 28, 35]
Accuracy: 0.814
On level 36, I removed feature 23 to current set

On the 37th level of the search tree
--Considering removing the 5 feature
Current Set looking like: [5, 28, 35, 37]
Feature Set to remove looking like: [28, 35, 37]
Accuracy: 0.717
--Considering removing the 28 feature
Current Set looking like: [5, 28, 35, 37]
Feature Set to remove looking like: [5, 35, 37]
Accuracy: 0.836
--Considering removing the 35 feature
Current Set looking like: [5, 28, 35, 37]
Feature Set to remove looking like: [5, 28, 37]
Accuracy: 0.826
--Considering removing the 37 feature
Current Set looking like: [5, 28, 35, 37]
Feature Set to remove looking like: [5, 28, 35]
Accuracy: 0.839
On level 37, I removed feature 37 to current set

On the 38th level of the search tree
--Considering removing the 5 feature
Current Set looking like: [5, 28, 35]
Feature Set to remove looking like: [28, 35]
Accuracy: 0.69
--Considering removing the 28 feature
Current Set looking like: [5, 28, 35]
Feature Set to remove looking like: [5, 35]
Accuracy: 0.865
--Considering removing the 35 feature
Current Set looking like: [5, 28, 35]
Feature Set to remove looking like: [5, 28]

Accuracy: 0.851
On level 38, I removed feature 28 to current set

On the 39th level of the search tree
--Considering removing the 5 feature
Current Set looking like: [5, 35]
Feature Set to remove looking like: [35]
Accuracy: 0.693
--Considering removing the 35 feature
Current Set looking like: [5, 35]
Feature Set to remove looking like: [5]
Accuracy: 0.846
On level 39, I removed feature 35 to current set

On the 40th level of the search tree
--Considering removing the 5 feature
Current Set looking like: [5]
Feature Set to remove looking like: []
Accuracy: 0.174
On level 40, I removed feature 5 to current set

Best set: [1, 2, 3, 5, 7, 8, 10, 15, 16, 17, 24, 25, 33, 34, 35, 36, 38]
Final Accuracy: 0.865