**1st Calculations:**

* For Patient 1:
  + Distance to Cluster 1: 6
  + Distance to Cluster 2: 8
* For Patient 2:
  + Distance to Cluster 1: 7
  + Distance to Cluster 2: 9
* For Patient 3:
  + Distance to Cluster 1: 0
  + Distance to Cluster 2: 2
* For Patient 4:
  + Distance to Cluster 1: 2
  + Distance to Cluster 2: 0
* For Patient 5:
  + Distance to Cluster 1: 11
  + Distance to Cluster 2: 13

**Cluster 1**: Patients 1, 2, 3,5

**Cluster 2**: Patients 4

**2nd Calculations: (cluster 1 initial = 23(avg of 4 point), cluster 2 initial = 31)**

* For Patient 1:
  + Distance to Cluster 1: 0
  + Distance to Cluster 2: 8
* For Patient 2:
  + Distance to Cluster 1: 1
  + Distance to Cluster 2: 9
* For Patient 3:
  + Distance to Cluster 1: 6
  + Distance to Cluster 2: 2
* For Patient 4:
  + Distance to Cluster 1: 8
  + Distance to Cluster 2: 0
* For Patient 5:
  + Distance to Cluster 1: 5
  + Distance to Cluster 2: 13

**Cluster 1**: Patients 1, 2,5

**Cluster 2**: Patients 3, 4

**3st Calculations: (cluster 1 initial = 21(avg of 3 point), cluster 2 initial = 30(avg of 2 point))**

* For Patient 1:
  + Distance to Cluster 1: 2
  + Distance to Cluster 2: 7
* For Patient 2:
  + Distance to Cluster 1: 1
  + Distance to Cluster 2: 8
* For Patient 3:
  + Distance to Cluster 1: 8
  + Distance to Cluster 2: 1
* For Patient 4:
  + Distance to Cluster 1: 10
  + Distance to Cluster 2: 2
* For Patient 5:
  + Distance to Cluster 1: 3
  + Distance to Cluster 2: 12

**Cluster 1**: Patients 1, 2,5

**Cluster 2**: Patients 3, 4

convergence – final answer.