**Objective:**  
Examine the signal data from all five planets and identify the one with the steadiest signal.

This is the dataset for all of the 5 planets:

Alpha = [15, 18, 20, 17, 19]

Beta = [23, 25, 28, 24, 26]

Gamma = [12, 13, 15, 11, 14]

Delta = [33, 32, 31, 30, 34]

Epsilon = [25, 26, 27, 29, 28]

**Workflow:**

Every planet has alpha, beta, gamma, delta, epsilon signal. Therefore,

We assume index 0 is planet A, index 1 is planet B, index 2 is planet C, index 3 is planet D, index 4 is planet E and so on.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Planet | Alpha | Beta | Gamma | Delta | Epsilon |
| A | 15 | 23 | 12 | 33 | 25 |
| B | 18 | 25 | 13 | 32 | 26 |
| C | 20 | 28 | 15 | 31 | 27 |
| D | 17 | 24 | 11 | 30 | 29 |
| E | 19 | 26 | 14 | 34 | 28 |

We transpose the signal and we are able to calculate the variance to determine the steadiest state of planet.

Our answer is Planet C, because it has lowest variance 34.16. It is proven that it is the steadiest planet.