

The control of the co	The second of the control of the con	The control of the co	a (a=np.arange(1,25).reshape(6,4)
The control of the co	The second of th	The second of the control of the con	1	rray([[1, 2, 3, 4],
The second of the control of the con	The second of the control of the con	West cally a point of the control of		<pre>cype(np.hsplit(a,2)) ist print(np.hsplit(a,4)) array([[1], [5], [9], [13], [17], [21]]), array([[2], [6], [10], [14], [18],</pre>
Wertically split The content of t	Compared to the compared to	The second secon]	[22]]), array([[3],
And the second content of the second content	And the second content of the second content	Secretary of the control of the cont	1	<pre>[20 21 22 23 24] [25 26 27 28 29] [30 31 32 33 34] [35 36 37 38 39] [40 41 42 43 44] [45 46 47 48 49] [50 51 52 53 54] [55 56 57 58 59]] print(np.hsplit(x,2)) alueError</pre>
Vertically split The property of the proper	Vertically split The property of the proper	Vertically split To To To To To To To T		<pre>g38</pre>
Vertically split For the control of	Vertically split ***Common and Common and C	Vertically split Fig. 19		
Security 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	Security 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	Security 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -		Vertically split print(np.vsplit(x,2)) array([[0, 1, 2, 3, 4],
The company of the co	The second content of	The second secon	1	[35, 36, 37, 38, 39], [40, 41, 42, 43, 44], [45, 46, 47, 48, 49], [50, 51, 52, 53, 54], [55, 56, 57, 58, 59]])] z=np.vsplit(x,4) print(z) array([[0, 1, 2, 3, 4],
The content of the	The content of the	The content of the	1	<pre>s=np.arange(16).reshape(4,4) print(x) [0 1 2 3] [4 5 6 7] [8 9 10 11] [12 13 14 15]] z=np.vsplit(x,np.array([1,2])) #:1,1:2,2:3,3: print(z) array([[0, 1, 2, 3]]), array([[4, 5, 6, 7]]), array([[8, 9, 10, 11],</pre>
### STATE OF THE PROPERTY OF T	The control of the co	### Company of the property of the company of the c	[[[0 1 2 3] [4 5 6 7] [8 9 10 11] [12 13 14 15]] [[16 17 18 19] [20 21 22 23] [24 25 26 27] [28 29 30 31]]] ### numpy.dsplit(ary, indices_or_sections) #### Split array into multiple sub-arrays along the 3rd axis (depth)
According to the control of the cont	According to the control of the cont	According to the control of the cont		<pre>[4, 5], [8, 9], [12, 13]], [[16, 17], [20, 21], [24, 25], [28, 29]]]), array([[2, 3], [6, 7], [10, 11], [14, 15]], [18, 19], [22, 23], [26, 27],</pre>
Appear of the company	Appear of the company	Appear of the company	,	rray([[[0., 0., 0.],
List Section (1987) Indicated (1988) Indicated	List Section (1987) Indicated (1988) Indicated	List Section (1987) Indicated and Control (1987) Indicated and C		<pre>import sys import time import numpy as np def list_add(11,12): i=0 for a in 12: 11[i]=11[i]+a i=i+1 count = 10000 t1=list(range(count))</pre>
et us Understand about the ravel function, its used to convert an N limensional array into a 1 dimensional array. been accordingly (1/4)	et us Understand about the 'ravel function, its used to convert an Nimensional array into a 1 dimensional array. Septimensional array into a 2 dimensional array into a 1 dimensional array. Septimensional array into a 2 dimensional array into a 3 dimensional array int	et us Understand about the ravel function, its used to convert an N immersional array into a 1 dimensional array. Deno accordingly (3/4/4) (3		<pre>list_add(11,12) end=time.time() elapsed = 1000*(end-start) print("List addition time is ",elapsed) a1 = np.arange(count) a2 = np.arange(count) start=time.time() a3=a1+a2 end=time.time() elapsed = 1000*(end-start) print("Array addition time is ",elapsed)</pre>
print (s. manus) (1	print (s. manus) (1	print (s. manus) (1		et us Understand about the ravel function, its used to convert an N imensional array into a 1 dimensional array. p=np.array([[1,2],[3,4]]) a = b.ravel() print(a) print(a) prype(a) 1 2 3 4] pumpy.ndarray
tray((0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15)) ##################################	tray((0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15)) ##################################	tray((0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15)) ##################################	1	[[0 1] [2 3]] [[4 5] [6 7]] [[8 9] [10 11]] [[12 13] [14 15]]] [shape
print (x.min()) #minimum value print (x.mean()) #mean value .5 that is Variance. ariance measures how far a data is spread out. The technical definition is "The average of the squared differences from the mean really does is to give you a very general idea of the spread of your data. A value of zero means that there is no variability, All the the data set are the same. or Example:- ne data set 12, 12, 12, 12 has a var. of zero (the numbers are identical). ne data set 12, 12, 12, 13 has a var. of 0.167; a small change in the numbers equals a very small var. ne data set 12, 12, 12, 13,013 has a var. of 28171000; a large change in the numbers equals a very large number. print (x.var()) #Variance 1.25 hat is standard deviation. ne square root of the variance is the standard deviation. While var. gives you a rough idea of spread, the standard deviation is moncrete, giving you exact distances from the mean. print (x.std()) #standard deviation .6097722266464435 x=np. arange (16) .reshape (4, 2, 2) print (x) [(0	print (x.min()) #minimum value print (x.mean()) #mean value .5 that is Variance. ariance measures how far a data is spread out. The technical definition is "The average of the squared differences from the mean really does is to give you a very general idea of the spread of your data. A value of zero means that there is no variability, All the the data set are the same. or Example:- ne data set 12, 12, 12, 12 has a var. of zero (the numbers are identical). ne data set 12, 12, 12, 13 has a var. of 0.167; a small change in the numbers equals a very small var. ne data set 12, 12, 12, 13,013 has a var. of 28171000; a large change in the numbers equals a very large number. print (x.var()) #Variance 1.25 hat is standard deviation. ne square root of the variance is the standard deviation. While var. gives you a rough idea of spread, the standard deviation is moncrete, giving you exact distances from the mean. print (x.std()) #standard deviation .6097722266464435 x=np. arange (16) .reshape (4, 2, 2) print (x) [(0	print (x.min()) #minimum value print (x.mean()) #mean value .5 that is Variance. ariance measures how far a data is spread out. The technical definition is "The average of the squared differences from the mean really does is to give you a very general idea of the spread of your data. A value of zero means that there is no variability, All the the data set are the same. or Example:- ne data set 12, 12, 12, 12 has a var. of zero (the numbers are identical). ne data set 12, 12, 12, 13 has a var. of 0.167; a small change in the numbers equals a very small var. ne data set 12, 12, 12, 13,013 has a var. of 28171000; a large change in the numbers equals a very large number. print (x.var()) #Variance 1.25 hat is standard deviation. ne square root of the variance is the standard deviation. While var. gives you a rough idea of spread, the standard deviation is moncrete, giving you exact distances from the mean. print (x.std()) #standard deviation .6097722266464435 x=np. arange (16) .reshape (4, 2, 2) print (x) [(0	1	s=x.ravel() s rray([0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15]) s.shape 16,) print(x.max()) #maximum value
the data set 12, 12, 12, 12, 13 has a var. of zero (the numbers are identical). The data set 12, 12, 12, 12, 13 has a var. of 0.167; a small change in the numbers equals a very small var. The data set 12, 12, 12, 13,013 has a var. of 28171000; a large change in the numbers equals a very large number. The data set 12, 12, 12, 13,013 has a var. of 28171000; a large change in the numbers equals a very large number. The print (x.var()) #Variance That is standard deviation. The square root of the variance is the standard deviation. While var. gives you a rough idea of spread, the standard deviation is more ordere, giving you exact distances from the mean. The print (x.std()) #standard deviation The composition of the variance (16) .reshape (4, 2, 2) print (x) The composition of the variance (16) .reshape (4, 2, 2) print (x) The composition of the variance (16) .reshape (4, 2, 2) print (x) The composition of the variance (16) .reshape (4, 2, 2) print (x) The composition of the variance (16) .reshape (4, 2, 2) print (x) The composition of the variance (16) .reshape (4, 2, 2) print (x) The composition of the variance (16) .reshape (17) and the composition of the variance (18) and the composition of th	the data set 12, 12, 12, 12, 13 has a var. of zero (the numbers are identical). The data set 12, 12, 12, 12, 13 has a var. of 0.167; a small change in the numbers equals a very small var. The data set 12, 12, 12, 13,013 has a var. of 28171000; a large change in the numbers equals a very large number. The data set 12, 12, 12, 13,013 has a var. of 28171000; a large change in the numbers equals a very large number. The print (x.var()) #Variance That is standard deviation. The square root of the variance is the standard deviation. While var. gives you a rough idea of spread, the standard deviation is more ordere, giving you exact distances from the mean. The print (x.std()) #standard deviation The composition of the variance (16) .reshape (4, 2, 2) print (x) The composition of the variance (16) .reshape (4, 2, 2) print (x) The composition of the variance (16) .reshape (4, 2, 2) print (x) The composition of the variance (16) .reshape (4, 2, 2) print (x) The composition of the variance (16) .reshape (4, 2, 2) print (x) The composition of the variance (16) .reshape (4, 2, 2) print (x) The composition of the variance (16) .reshape (17) and the composition of the variance (18) and the composition of th	the data set 12, 12, 12, 12, 13 has a var. of zero (the numbers are identical). The data set 12, 12, 12, 12, 13 has a var. of 0.167; a small change in the numbers equals a very small var. The data set 12, 12, 12, 13,013 has a var. of 28171000; a large change in the numbers equals a very large number. The data set 12, 12, 12, 13,013 has a var. of 28171000; a large change in the numbers equals a very large number. The print (x.var()) #Variance That is standard deviation. The square root of the variance is the standard deviation. While var. gives you a rough idea of spread, the standard deviation is more ordere, giving you exact distances from the mean. The print (x.std()) #standard deviation The composition of the variance (16) .reshape (4, 2, 2) print (x) The composition of the variance (16) .reshape (4, 2, 2) print (x) The composition of the variance (16) .reshape (4, 2, 2) print (x) The composition of the variance (16) .reshape (4, 2, 2) print (x) The composition of the variance (16) .reshape (4, 2, 2) print (x) The composition of the variance (16) .reshape (4, 2, 2) print (x) The composition of the variance (16) .reshape (17) and the composition of the variance (18) and the composition of th	l l	print (x.min()) #minimum value print (x.mean()) #mean value .5 hat is Variance. riance measures how far a data is spread out. The technical definition is "The average of the squared differences from the mean really does is to give you a very general idea of the spread of your data. A value of zero means that there is no variability; All the the data set are the same.
print(x.std()) #standard deviation .6097722286464435 x=np.arange(16).reshape(4,2,2) print(x) [[0 1]	print(x.std()) #standard deviation .6097722286464435 x=np.arange(16).reshape(4,2,2) print(x) [[0 1]	print(x.std()) #standard deviation .6097722286464435 x=np.arange(16).reshape(4,2,2) print(x) [[0 1]	ור רור	e data set 12, 12, 12, 12 has a var. of zero (the numbers are identical). e data set 12, 12, 12, 13 has a var. of 0.167; a small change in the numbers equals a very small var. e data set 12, 12, 12, 13,013 has a var. of 28171000; a large change in the numbers equals a very large number. print(x.var()) #Variance 1.25 nat is standard deviation. e square root of the variance is the standard deviation. While var. gives you a rough idea of spread, the standard deviation is m
<pre>[6 7]] [[8 9] [10 11]] [[12 13] [14 15]]]</pre>	<pre>[6 7]] [[8 9] [10 11]] [[12 13] [14 15]]]</pre>	<pre>[6 7]] [[8 9] [10 11]] [[12 13] [14 15]]]</pre>	2	.6097722286464435 x=np.arange(16).reshape(4,2,2) print(x) [[0 1]