Num Py Searching Browns Find sue indexes ushare due value is 4: import sumply as sop ard = op. array ([1,2,3,4,5,4,4]) x = up. whose (ass = = 4) print (n) den 315 mel 6 ('ororay[3,5,6], daype 2 ister) Final une indexes where she values are even: import numpy as no are = ub. are and [[12 1314, 5/6/7/8]] N = ub: mpose (ours / 5 ==0) Street Breeze. being (x) Output (assory [[1,3,5,7]), 3 dtype = int 64),) Find are indexes where the values are odd due to Rduena Assidue! are = mp. are ay ([[],2,3,4,5,6,7,8]) n = np. where (arr 1/2 ==1) being (x Output (array ([0,2,4,6]), 3 degpe = int 64),) Search Sorted imboal would as un ass = ub. assard ([6, 218, 2]) no orpo search sorted (arr, 7)

Search Form the Right Side imbost similar or ub ass= sb. ssand ([6, 4, 8, 3]) n=np.searchsorteel(arr)7, side = 1 right) print(a) 0/p-)2 Search Multiple Values dre so between + sodue, ass = sub. assand (C1,312,2)) n = sp. searchsorteel (arr, [2,4,6]) being (U) array [123] O Soot the armay as of ass = sib-assan ([3/5/0']) 4 phonos boint (ub. 2024 (down)) Output CO 12 37 OSost the arrowy alphabetically impost numpy as mp are = mp. array ([169 morna", 1cheray, 1apple 1]) (ass) Jess (ass)) Output [apple 1 1 bemong 1 che ory]

Sort a boalean array. imback unable or sub are = sp. wroaf ([Trove, False, True]) being (eb- soot (ase)) Output [talse Toue Toue] 3 Sooting a 2-D Armony import smooth as up ase = sh. assand ([[31517]'[2'0']]) being (ub · saxt (orea)) Oulput [[234] [072] Mires BA Lilter Heren Cretting some claments out of an oxisting array and creating a new array out of them is called \$ 78llering grines 187 of get Create on array food the classents or jetter 0 and 5 des bost establish on sub are = seb. ossaA([A1)A52A31AA]) N= [Toue, False, Fore, False] wemare = ones Call bajng (nomares) an Dulput [U1, 43] Carry Show may be a few many of the and it

Occasing the Felter Armay jubaet enutor or eb ores = ub. oresand ([71,45,43,44]) # coease on coupty dest filter_ans=[] A go Ansough each element in ass for element in ass: Hif the classest is higher ofnom 42, sol one value to True, otherwise False; If element > 42: filter- arr-append (True) filter-arr. append (False) sommass = ass [filter ass] point (filter - ass) 10001 Jest 27 159 Moory boing (umasas) Output L-Fabe, Fabe, True, True] [43 44] Oreate a filter array that will velvoor only even elements form the orginal armay; du so helvense perdusi arms = orp. array ([112131415,617]) # create on empty list filter arr = [] # go through each element in and for element in arrow # if the element is completely divisible by 2, set the value to Towe, otherwise talse if element 1.2 = = 0; filtered and append True) else: Lilter arr. append (Talse)

um area = area [tilter area] being (venouse) Output [False, True, False, Trove, False, Trove, False] Pseudo Britan money Tour Find on [246] O Creating Filter Directly Form Array du mobalanne pooduni area = 206.000000 ([A11451A31AA]) tiller-ass = ass>115 newars = are [teller are] off prive (filter-arro) [F F T] point (newaris) [4347] I Creating a filter array that will return only even elements former the deidinal array: imback enauth or est aer = ub. aread ([1151317121015]) tilter-over = 020.1.5 ==0 being (titter-and) bung (wennes) Output CFalse Tour F T F T F] T2461 all Chevantre of 1-D assess Compromis Taush o may a ship Telement of White for a see that

of freeze as a grant of the house of energy of