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UNT ID: 11442777

ASSIGNMENT: 1

DEPT: DATA SCIENCE

DATE: 02/07/2021

COURSE: INFO 5502

Question:

Write a Python program that can take strings of different lengths - each string may include digits, characters, and special symbols ‐ and then sort them - you can use any sorting algorithm that interests you. You need to define the rule for sorting and then implement the sorting function using Python - DO NOT use any existing sort function from either Python or an external module ‐ that is, program the "sort" algorithm yourself. Using Python, visualize a list of input strings - the list must include at least 500 strings of differing lengths. Use a scatter plot to do the visualization ‐ one dimension will be the length of each string - and the other dimension could be the order of the string in the list.

Submit the python program, a report to describe the sorting rule, visualization result and testing results with 5 test cases.

Description:

Sorting: Data sorting is a process that arranges the data into meaningful and it will easy to understand, Analyze and visualize. Data is typically sorted based on original values, in their ascending or descending order. We can easily sort a list of elements by using loops and if-condition statements. Sorting algorithms can be execute by any programming languages c, java, python.

Rule for sorting:

Here I implemented the program by using Bubble sort for sorting 500 different lengths of strings based on alphabetical order (And the Output is special characters->numeric->alphabets). I have taken define function as [**order_strings**] and the parameter is [**str**]. And I passed the list of strings which gets sorted and defined Scatter plot by using Matplotlib Library in such a way that X=axis provides the length of the list and Y-axis is defined as the length of a strings and I have included xlabel,ylabel and title functions,so that it will be easy to view the graph.

PROGRAM FOR SORTING DIFFERENT TYPES OF STRINGS (WITH LIST INCLUDED 500 STRINGS) AND USING A SCATTER PLOT TO VISUALIZE LIST OF STRINGS

Python Program

```python
import matplotlib.pyplot as plt
def order_strings(str):
    f=[]
    x=[]
    y=[]
    for i in range(0,len(str)):
        a=list(str[i])

        for j in range(0,len(a)):
            for k in range(j+1,len(a)):
                if a[j]>a[k]:
                    a[j],a[k]=a[k],a[j]
                    z="".join(a)
        f.append(z)
    print(f)
    for b in range(0,len(str)):
        x.append(b)
    #print(x)

    for n in range(0,len(f)):
        q=len(f[n])
        y.append(q)
    #print(y)
    plt.xlabel("Length of the list",color="Black",size="15")
    plt.ylabel("order of each string",color="black",size="15")
    plt.title("Sorting the different length of strings in list",loc="center",size="15")
    plt.scatter(x,y,color="pink")
```
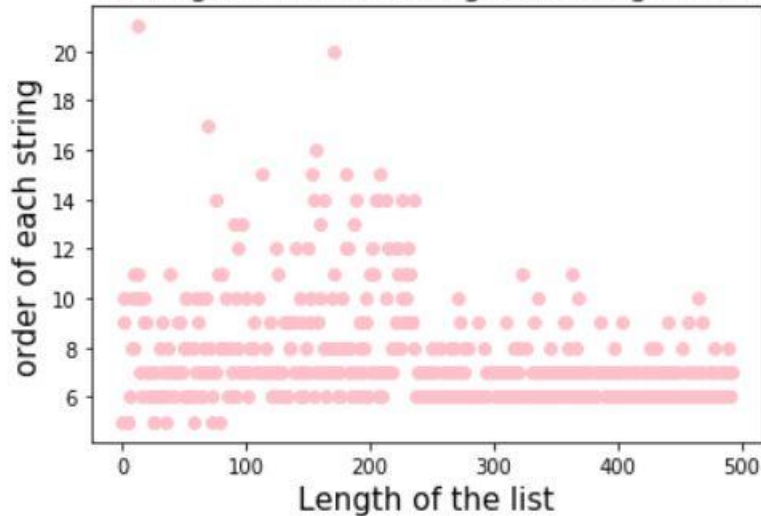
Test case1:

Actual string:

sorting(["are45","jhgdsj^%$@","GHJ546$%^","ram6$","varun","teja7","venkat","saiteja576","sunil%^^","Vamsi*^9","deekshith#2","srikanth%^","Saikumar%$ @","gfhfhfjfghfhgcgfdfghd","iamgoing34","tomovie","whatis","shedoing@","itoldher12","bealright","cdechu2","Elsewr2","rain123","1icebc","ekuva4","!h!nn","chir u","vamsi56","$%gvfh","zzzzzz","money%$5","%&^%gh","&^8chjira","11fhgd","635fgjh","ghjhd","^56gfh","gdhs67^%",'Afghanistan', 'Albania', 'Algeria', 'Andorra', 'Angola', 'Antigua', 'Barbuda','Argentina', 'Armenia', 'Australia', 'Austria', 'Austrian', 'Empire', 'Azerbaijan', 'Madagascar', 'Malawi', 'Malaysia', 'Maldives', 'Maligh','Malta','Marshall','Islands','Mauritania','Mauritius','Mexico','Micronesia','Moldova','Monaco','Mongolia','Montenegro','Morocco','Mozambique'"kjfjkjs","%$65 gjhg","hdjagja","hfhjs","^7ygtd","%76ghsd","gsjgfjeggsdjhf","bcjhgcg","djahdjuy674","bfjhwg76","hgfjs","ewgu"'jkfhgsf","bjaugd56","^%&ghhdg","hfgbsujg","*& ^&hndskj","^*&*&^","!#@#$#$%","$#%%^*&^","&**^&%","GVF%^87","HJGGJHGJGHUYg","GFHHgfyt76",'Panama', 'Argeghjntina', 'Barbados','Belarus', 'Philghippines', 'Nassau*', 'Bahrain', 'Bangladesh', 'Belgium', 'Austria', 'Guinea', 'Paraguay', 'Bahamas,', 'Bavaria*', 'Austrian', 'Nicaragua', 'Nigeria', 'Barbuda','Azerbaijan', 'States*', 'Piedmont-Sardin', 'Antigua', 'Albania', 'Andorra', 'Pakistan', 'Zealand', 'Algeria', 'Australia', 'Angola', 'Belize', 'Namibia', 'Empire', 'Netherlands,', 'Armenia', 'Afghanistan','Swoosh', 'Furiosa', 'SpeedX', 'Firebrand', 'Burner', 'Orange', 'Brimstone', 'Apollo', 'Knockout', 'Hannibal', 'Clockwork', 'Imperator', 'Furious', 'Strangeglove','Screech', 'Furiosa', 'Scorch', 'Roadrunner', 'Clockwork', 'Torcher', 'Hoover', 'Divebomb','BloodDiamond', 'Slammer', 'Dumptruck', 'RedOctober', 'MerlotTNTDiablo', 'Taurus', 'PearlyTailgate','Monster', 'LightningMcQueen', 'TheDonald', 'FerrisBueller', 'IgniteRoad', 'Ladybug', 'Squeaker', 'SummerVacation', 'Wheezy', 'Roadkill', 'RedBull', 'Caroline', 'Sawdust', 'Craigslist', 'YosemiteSamStepchild','Gravedigger', 'Champion', 'Garbage', 'Bloody', 'Cherry', 'Michael', 'SwampThing', 'Doomsday', 'Sawbones', 'DieHardJunkyard', 'PavementFace', 'Troublemaker', 'Rosanne', 'Dynamite', 'RedHot', 'Arnold','HighwaytoHell', 'CrimsonMachine', 'Starsky', 'Jordan', 'Paycheck', 'Bloodshot', 'Vulture', 'Komoda', 'ToneZone', 'Basketcase', 'Sasquatch', 'Murder', 'TheGoon', 'RonBurgundy','Nightcrawler','Bloodsoaked','Bonecrusher','CliffordtheBig','Redbull','BlazingSaddles','Magnum','BobtheDestroyer',"6757687","778648","8765348","3

47%^^g""%$hggdh","UYTGtgdsgj","hgfjsyh","hfihsdfhsdfh","6gfh879","76ghdfjk","y657834","64hgjhfg","fhsj87^jdrhg","rhgfjuhdf","sjhgdfnbchj","djfnhgiudfhf","
shgbfheg","*&^87jhbgcjvhg","qpplrfjirj","gvgh*(&5)","*&*76hjhdfg","hfjksdhfuh","*&^&6hgcjhgd","GFUYgdyfg","*&876hcjhdg","&*hjsgdhj","^&djkhf87","fngk
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'hatty12','meaty2', 'malayam', 'tollyu', 'sweaty4', 'runaway', 'cinema1', 'danger45', 'aeonny', '12fonny'])

After sorting testcase1:

['45aer', '$%@^dghjjs', '$%456GHJ^', '$6amr', 'anruv', '7aejt', 'aekntv', '567aaeijst', '%^^ilnsu', '*9V^aims', '#2deehhikst', '%^ahiknrst', '$%@Saaikmru', 'cddfffffffggggg
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u', 'Aaeginnrt', 'Aaeimnr', 'Aaailrstu', 'Aairstu', 'Aainrstu', 'Eeimpr', 'Aaabeijnrz', 'Maaaacdgrs', 'Maailw', 'Maaailsy', 'Madeilsv', 'Maghil', 'Maalt', 'Maahllrs', 'Iadlnss', '
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, 'Tabeeklmorru', 'Raennos', 'Daeimnty', 'HRdeot', 'Adlnor', 'HHaeghillotwy', 'CMacehiimnnors', 'Sakrsty', 'Jadnor', 'Paccehky', 'Bdhlooost', 'Velrtuu', 'Kadmoo', 'TZeen
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eestwy', '12345bmnv', 'cginnnu', 'abbyzz', 'cdejmy', 'bhmoor', '78pppu', '0267df', '12abcjm', '67hmotu', '56cipsy', '2firtu', 'aaghjrtu', 'htttwz', '456hmt', '1klloy', '12ahtty', '
2aemty', 'aaalmmy', 'llotuy', '4aestwy', 'aanruwy', '1aceimn', '45adegnr', 'aennoy', '12fnnoy']

Sorting the different length of strings in list

Test case 2:

Before sorting:

sorting(['CrimsonMachine', 'Starsky', 'Jordan', 'Paycheck', 'Bloodshot', 'Vulture', 'Komoda', 'ToneZone', 'Basketcase', 'Sasquatch', 'Murder', 'TheGoon', 'RonBurgundy', 'Nightcrawler','Bloodsoaked','Bonecrusher','CliffordtheBig','Redbull','BlazingSaddles','Magnum','BobtheDestroyer',"6757687","778648","8765348","347%^^g"'"%$hg gdh","UYTGtgdsgj","hgfjsyh","hfihsdfhsdfh","6gfh879","76ghdfjk","y657834","64hgjhfg","fhsj87^jdrhg","rhgfjuhdf","sjhgdfnbchj","djfnhgiudfhf","shgbfheg","*&^ 87jhbgcjvhg","qpplrfjirj","gvgh*(&5)","*&*76hjhdfg","hfjksdhfuh","*&^&6hgcjhgd","GFUYgdyfg","*^$876hcjhdg","&*hjsgdhj","^&djkhf87","fngkjsdh","fhgeuryt nbsdhf",'mht654','12fonny','cassty','EFghgh','hel!@lo','carloan','EFgh!!','malayam',"!!!!!!!!!!!!!!!!","^&%^%&^8*&",'google', 'kolly1', 'ekuva4', 'golddy4', 'hellohek', 'babyzz', 'aeonny', 'aug456', 'cdechu2', 'broomh', 'foxxyc', 'gujarath', '!loveu', 'july24', '1ijk2c', 'country', 'pinny1', 'bronze','gonny67', 'summer23', 'farmy2', 'helloby7', 'tfstool1', 'silver3', 'qa34ed', 'itsolu!123', '!missu', 'abc123894', 'sweaty4', 'pickup', 'hatty12', 'pillow23', 'cookee', 'tracj2', 'ruangry1', 'ammulu', 'drescc', '!mkoph','c1v2b3', 'sprout', 'gmail2', '1icebc', 'shaivi@15', 'cdemjy', 'doxxy1', 'madboy', 'danger45', 'piece2', 'wtztht', 'carlone', 'enjoy78', 'nastory', 'vrushi!', 'simha12', 'abc123!', 'mouth67', 'good12', 'iconoic', 'aolly3','A123ss', 'cdecde', 'biscuit', 'pppu78', 'work12', 'fruit!3', '12345mnbv', 'ABlmnC', 'shaivi', 'E@wrebh', 'spinach', 'gold34', 'february', 'abc66444', 'win123', 'gutarat', 'hotmail1', 'pressy', 'friut2', '!!!!!$wecgh', 'm1n2b3','tollyu', 'bankloan', 'denton', 'eoxxy2', 'meaty2', 'bed456', 'ABC@!sd', 'abc123444', 'sweety', 'january', 'fall34', 'Ellenb56gh', 'hapy76', 'cunning', 'cdednt', 'chicke', 'inthe!', 'hellomk', 'd1ssdr', 'runaway', 'cfrui54e', 'loveboy','fruit1', 'chinni', 'spicy56', 'kukky2', 'toomuch', 'nacc7y', 'june12s', 'oreo09', 'kolly23', 'letsmeet2', 'abc12mj', 'mindtree2', 'hunger45', 'w1o2r3', 'fruit34', 'dntwryc', '12345abcabc', 'body67', 'summer1', 'lalita12', 'australia!', 'ab89hh', 'werfree', 'fishhy', 'spring', 'buddy15', 'mingle', 'keystr', 'swetha', 'Elsewr2', 'lolluy', 'paris@#', 'gold12', 'davb5@', 'Enmhyh', 'dance3', 'Ehonny2', 'cinema1', 'chinmayi1', '12bgabc', 'github!', 'redmond', 'rain123', 'wx!123','12345abc', 'alron@', 'EFgh000', 'Akka!fg', 'enkemi1','helloby7', 'gold12', 'doxxy1', 'hel!@lo', 'Akka!fg', 'c1v2b3', 'pinny1', 'letsmeet2', 'drescc', 'chinni', 'gonny67', '12bgabc', 'dance3', '!missu', 'chicke', 'aolly3', 'Ehonny2', 'buddy15','biscuit', 'golddy4', 'w1o2r3', 'fall34', 'ab89hh', 'lolluy', '!loveu', 'dntwryc', 'EFgh000', 'foxxyc', 'cdednt', 'fishhy', 'hunger45', 'loveboy', 'mingle', 'bankloan', 'EFgh!!', 'pillow23', 'carloan', 'qa34ed', 'tracj2', 'eoxxy2', 'enjoy78','fruit34', 'good12', 'davb5@', 'shaivi@15','"%$^$&%&$^&",'carlone', 'fruit1', 'ABC@!sd', 'kolly23', 'iconoic', 'oreo09', 'pressy', 'bronze', 'm1n2b3', 'silver3', 'aug456', 'ruangry1', 'piece2', 'gold34', 'bed456', 'abc123894', 'werfree', 'fruit!3', 'farmy2','guntur', 'madboy', 'gutarat', 'pickup', 'vijayawada', 'work12', 'sweety', '12345mnbv', 'cunning', 'babyzz', 'cdemjy', 'broomh', 'pppu78', '7620df', 'abc12mj', 'mouth67','spicy56','friut2','gujarath','wtztht','mht654','kolly1','hatty12','meaty2','malayam','tollyu','sweaty4','runaway','cinema1','danger45','aeonny','12fonny','"^&%^$$ ^*&^","GFHGFHGFHJG""&^%&GVGH","FGHGFHgfv","TGFHYRYFHGF","%^$^%%^&^","HNJGJHGFHRFTY","YTTTRFYTYTR","4354FGHFHGf","HGH FHFYTFGV675","656^6567","#$@%$@!$##$","DFGBDG","JHGJGHHYGFH","^%$^^&879","JHGYUHHFDTGF","%^$^%%^&*^*","JHGHYGHV","TYFGH FYHTFGD","*&^&%&","UYTUJT","(*&^%^*(&))","KJHJGTHJFDRD","jdhfjusdfh",'shaivi@15','"%$^$&%&$^&",'carlone', 'fruit1', 'ABC@!sd', 'kolly23', 'iconoic', 'oreo09', 'pressy', 'bronze', 'm1n2b3', 'silver3', 'aug456', 'ruangry1', 'piece2', 'gold34', 'bed456', 'abc123894', 'werfree', 'fruit!3', 'farmy2','guntur', 'madboy', 'gutarat', 'pickup', 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'hg3h67', '133765c', 'ab33s44', 'cg3331h!', 'fgrhhsg', 'karnhhaka2', 'camvva2', 'Earrr@1', 'hirriy!', '3ff455c', 'afunty44', 'prasa33d1#', 'frdssog', 'ABc11ss23', 'cdssde2@','aceehiijnrv', '%&afghjs', '123acdgghr', '56ffghh', 'aaekntv', 'adgru', 'CDFFGGHNX', 'CDFFGGHHJV', 'DFFGGJJSY', '5fgghhv', '%^^rv', 'ffgh', 'aadprs', 'aeellnr', '#$4456@aaejnrtuv', 'aaikmrsu', 'eehnntv', 'bddfghhns', 'bddfffggghhhjjssv', 'bbbbdfghhhhjjvv', 'dfghjj', 'bddffggghjjjssv', 'ddfgghjjss', '%%&FGGHHHV^bv', '4455dfgjrs'])

After sorting:

['CMacehiimnnors', 'Sakrsty', 'Jadnor', 'Paccehky', 'Bdhlooost', 'Velrtuu', 'Kadmoo', 'TZeennoo', 'Baaceeksst', 'Saachqstu', 'Mderru', 'GTehnoo', 'BRdgnnoruuy', 'Nacegh ilrrtw', 'Baddeklooos', 'Bceehnorrsu', 'BCdeffghiilort', 'Rbdellu', 'BSaaddegillnsz', 'Magmnu', 'BDbeeehoorrstty', '5667778', '467788', '3456788', '$%%347^^dggghh', ' GTUYdggjst', 'fghhjsy', 'ddfffhhhhiss', '6789fgh', '67dfghjk', '345678y', '46fgghhj', '78^dfghhjjrs', 'dffghhjru', 'bcdfghhjjns', 'ddfffghhijnu', 'befgghhs', '&*78^bcgghhjjv ', 'fijjlppqrr', '&()*5gghv', '&*67dfghhj', 'dffhhhjksu', '&&*6^cdgghhj', 'FGUYdfggy', '*678^cdghhj', '&*dghhjjs', '&78^dfhjk', 'dfghjkns', 'bdeffghhnrstuy', '456hmt', ' 12fnnoy', 'acssty', 'EFgghh', '!@ehllo', 'aaclnor', '!!EFgh', 'aaalmmy', 'aaalmmy', '%%&&&*8^^^', 'eggloo', '1klloy', '4aekuv', '4ddgloy', 'eehhkllo', 'abbyzz', 'aennoy', '4 56agu', '2ccdehu', 'bhmoor', 'cfoxxy', 'aaghjrtu', '!elouv', '24jluy', '12cijk', 'cnortuy', '1innpy', 'benorz', '67gnnoy', '23emmrsu', '2afmry', 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Sorting the different length of strings in list

Test case 3:

Before sorting:

sorting(['summer23', 'farmy2', 'helloby7', 'tfstool1', 'silver3', 'qa34ed', 'itsolu!123', '!missu', 'abc123894', 'sweaty4', 'pickup', 'hatty12', 'pillow23', 'cookee', 'tracj2', 'ruangry1', 'ammulu', 'drescc', '!mkoph', 'c1v2b3', 'sprout', 'gmail2', '1icebc', 'shaivi@15', 'cdemjy', 'doxxy1', 'madboy', 'danger45', 'piece2', 'wtztht', 'carlone', 'enjoy78', 'nastory', 'vrushi!', 'simha12', 'abc123!', 'mouth67', 'good12', 'iconoic', 'aolly3', 'A123ss', 'cdecde', 'biscuit', 'pppu78', 'work12', 'fruit!3', '12345mnbv', 'ABlmnC', 'shaivi', 'E@wrebh', 'spinach', 'gold34', 'february', 'abc66444', 'win123', 'gutarat', 'hotmail1', 'pressy', 'friut2', '!!!!!$wecgh', 'm1n2b3', 'tollyu', 'bankloan', 'denton', 'eoxxy2', 'meaty2', 'bed456', 'ABC@!sd', 'abc123444', 'sweety', 'january', 'fall34', 'Ellenb56gh', 'hapy76', 'cunning', 'cdednt', 'chicke', 'inthe!', 'hellomk', 'd1sdr', 'runaway', 'cfrui54e', 'loveboy','fruit1', 'chinni', 'spicy56', 'kukky2', 'toomuch', 'nacc7y', 'june12s', 'oreo09', 'kolly23', 'letsmeet2', 'abc12mj', 'mindtree2', 'hunger45', 'w1o2r3', 'fruit34', 'dntwryc', '12345abcabc', 'body67', 'summer1', 'lalita12', 'australia!', 'ab89hh', 'werfree', 'fishhy', 'spring', 'buddy15', 'mingle', 'keystr', 'swetha', 'Elsewr2', 'lolluy', 'paris@#', 'gold12', 'davb5@', 'Enmhyh', 'dance3', 'Ehonny2', 'cinema1', 'chinmayi1', '12bgabc', 'github!', 'redmond', 'rain123', 'wx!123','12345abc', 'alron@', 'EFgh000', 'Akka!fg', 'enkemi1','helloby7', 'gold12', 'doxxy1', 'hel!@lo', 'Akka!fg', 'c1v2b3', 'pinny1', 'letsmeet2', 'drescc', 'chinni', 'gonny67', '12bgabc', 'dance3',

'!missu', 'chicke', 'aolly3', 'Ehonny2', 'buddy15', 'biscuit', 'golddy4', 'w1o2r3', 'fall34', 'ab89hh', 'lolluy', '!loveu', 'dntwryc', 'EFgh000', 'foxxyc', 'cdednt', 'fishhy', 'hunger45','loveboy','mingle','bankloan','EFgh!!','pillow23','carloan','qa34ed','tracj2','eoxxy2','enjoy78','fruit34','good12','davb5@','shaivi@15','"%$^$&%&$^&",'carlone', 'fruit1', 'ABC@!sd', 'kolly23', 'iconoic', 'oreo09', 'pressy', 'bronze', 'm1n2b3', 'silver3', 'aug456', 'ruangry1', 'piece2', 'gold34', 'bed456', 'abc123894', 'werfree', 'fruit!3', 'farmy2','guntur', 'madboy', 'gutarat', 'pickup', 'vijayawada', 'work12', 'sweety', '12345mnbv', 'cunning', 'babyzz', 'cdemjy', 'broomh', 'pppu78', '7620df', 'abc12mj', 'mouth67', 'spicy56', 'friut2', 'gujarath', 'wtztht', 'mht654', 'kolly1', 'hatty12','meaty2', 'malayam', 'tollyu', 'sweaty4', 'runaway', 'cinema1', 'danger45', 'aeonny', '12fonny',"^&%^$$^*&^","GFHGFHGFHJG""&^%&GVGH","FGHGFHgfv","TGFHYRYFHGF","%^$^%%^&^","HNJGJHGFHRFTY","YTTTRFYTYTR","435 4FGHFHGf","HGHFHFYTFGV675","656^6567","#$@%$@!$##$","DFGBDG","JHGJGHHYGFH","^%$^^&879","JHGYUHHFDTGF","%^$^%%^&*^*","JHG HYGHV","TYFGHFYHTFGD","*&^&%&","UYTUJT","(*&^%^*(&))","KJHJGTHJFDRD","jdhfjusdfh",'shaivi@15',"%$^$&%&$^&",'carlone', 'fruit1', 'ABC@!sd', 'kolly23', 'iconoic', 'oreo09', 'pressy', 'bronze', 'm1n2b3', 'silver3', 'aug456', 'ruangry1', 'piece2', 'gold34', 'bed456', 'abc123894', 'werfree', 'fruit!3', 'farmy2','guntur', 'madboy', 'gutarat', 'pickup', 'vijayawada', 'work12', 'sweety', '12345mnbv','building', 'Bhalla.', 'Bhalla', 'deeds.', 'further', "Avantika's", 'attention', 'roughly.', 'lighten', 'combat', 'showing', 'beauty.', 'Avantika', 'becomes', 'friends', 'Mahishmati','soldiers.', 'promises', "Avantika's", 'honor,', 'though', "doesn't", 'Devasena', 'important', 'Rebels', 'infiltrates', 'Mahishmati', "Bhalla's", 'erecting', 'golden', 'statue', 'statue', 'catches','reveals', 'briefly', 'citizen', 'Baahubali.', 'citizens', 'surrounding', 'Baahubali', 'rebelliously,', "Bhalla's", 'anger.', 'statue', 'positioned,', 'Bhalla', 'demands', 'interrogate', 'guards','responsible.', 'disguises', 'himself', 'called', "Bhalla's", 'quarters.', 'escapes', 'successfully', 'Devasena', 'taking', 'kingdom', 'chariot.', 'however', 'stopped', "Bhadra's", 'scouts', 'guards','Kattappa', 'despite', 'beheads', 'Bhadra', 'treated', 'Devasena.', 'Amburis', 'search', 'Rebels.', 'Kattappa', 'charges', 'familiar', 'shouts', '"Baahubali"', 'surrounding', 'tribes', "Kattappa's", 'soldiers','cdecde', 'biscuit', 'pppu78', 'buddy15', 'mingle', 'keystr', 'swetha', 'Elsewr2', 'lolluy', 'paris@#', 'gold12', 'davb5@', 'Enmhyh', 'dance3', 'Ehonny2', 'cinema1', 'chinmayi1', '12bgabc', 'github!', 'redmond', 'rain123', 'wx!123','12345abc', 'alron@', 'EFgh000', 'Akka!fg', 'enkemi1','helloby7', 'gold12', 'doxxy1', 'hel!@lo', 'Akka!fg', 'c1v2b3', 'pinny1', 'letsmeet2', 'dresc c', 'chinni', 'gonny67', '12bgabc', 'dance3', '!missu', 'chicke', 'aolly3', 'Ehonny2', 'buddy15','biscuit', 'golddy4', 'w1o2r3', 'fall34', 'ab89hh', 'lolluy', '!loveu', 'dntwryc', 'EFgh000', 'foxxyc', 'cdednt', 'fishhy', 'hunger45', 'loveboy', 'mingle', 'bankloan', 'EFgh!!', 'pillow23', 'carloan', 'qa34ed', 'tracj2', 'eoxxy2','enjoy78','fruit34','good12','davb5@','shaivi@15',"%$^$&%&$^&",'sweaty4','runaway','cinema1','danger45','aeonny','12fonny',"^&%^$$^*&^","GFHGFHG FHJG""&^%&GVGH","FGHGFHgfv","TGFHYRYFHGF","%^$^%%^&^","HNJGJHGFHRFTY","YTTTRFYTYTR","4354FGHFHGf","HGHFHFYTFGV675","6 56^6567","#$@%$@!$##$","DFGBDG","JHGJGHHYGFH",'disappointment', 'however', 'obsessed', 'adventure', 'mountain', 'spends', 'trying', 'performs', 'prayer', 'hoping', 'obedient', 'trying,','involving', 'pouring', 'buckets', 'Lingam', 'pedestal.', 'dislodges', 'Lingam', 'showing', 'somehow', 'superhuman', 'strength.', 'carries', 'bottom', 'waterfall,','realizes', 'feminine', 'washed', 'further', 'motivated', 'venture', 'mountain', 'belongs', 'successfully', 'scales', 'mountain', 'Avantika', 'chased', 'soldiers','kingdom', 'called'])

After sorting:

['23emmrsu', '2afmry', '7behlloy', '1floostt', '3eilrsv', '34adeq', '!123ilostu', '!imssu', '123489abc', '4aestwy', 'cikppu', '12ahtty', '23illopw', 'ceekoo', '2acjrt', '1agnrruy', 'al mmuu', 'ccders', '!hkmop', '123bcv', 'oprstu', '2agilm', '1bccei', '15@ahiisv', 'cdejmy', '1doxxy', 'abdmoy', '45adegnr', '2ceeip', 'htttwz', 'acelnor', '78ejnoy', 'anorsty', '!hir suv', '12ahims', '!123abc', '67hmotu', '12dgoo', 'cciinoo', '3alloy', '123Ass', 'ccddee', 'bciistu', '78pppu', '12korw', '!3firtu', '12345bmnv', 'ABClmn', 'ahiisv', '@Ebehrw', 'achinps', '34dglo', 'abefrruy', '44466abc', '123inw', 'aagrttu', '1ahilmot', 'eprssy', '2firtu', '!!!!!$ceghw', '123bmn', 'llotuy', 'aabklnno', 'dennot', '2eoxxy', '2aemty', '456bde' , '!@ABCds', '123444abc', 'eestwy', 'aajnruy', '34afll', '56Ebeghlln', '67ahpy', 'cginnnu', 'cddent', 'ccehik', '!ehint', 'ehkllmo', '1ddrss', 'aannuwy', '45cefiru', 'beloovy', '1fir tu', 'chiinn', '56cipsy', '2kkkuy', 'chmootu', '7accny', '12ejnsu', '09eoor', '23klloy', '2eeelmstt', '12abcjm', '2deeimnrt', '45eghnru', '123orw', '34firtu', 'cdnrtwy', '12345aab bcc', '67bdoy', '1emmrsu', '12aaillt', '!aaailrstu', '89abhh', 'eeefrrw', 'fhhisy', 'ginprs', '15bdduy', 'egilmn', 'ekrsty', 'aehstw', '2Eelrsw', 'lllouy', '#@aiprs', '12dglo', '5@abd v', 'Ehhmny', '3acden', '2Ehnnoy', '1aceimn', '1achiimny', '12abbcg', '!bghitu', 'ddemnor', '123ainr', '!123wx', '123wx', '@alnor', '000EFgh', '!Aafgkk', '1eeikmn', '7behll oy', '12dglo', '1doxxy', '!@ehllo', '!Aafgkk', '123bcv', '1innpy', '2eeelmstt', 'ccders', 'chiinn', '67gnnoy', '12abbcg', '3acden', '!imssu', 'ccehik', '3alloy', '2Ehnnoy', '15bddu y', 'bciistu', '4ddgloy', '123orw', '34afll', '89abhh', 'lllouy', '!elouv', 'cdnrtwy', '000EFgh', 'cfoxxy', 'cddent', 'fhhisy', '45eghnru', 'beloovy', 'egilmn', 'aabklnno', '!!EFgh', '2 3illopw', 'aaclnor', '34adeq', '2acjrt', '2eoxxy', '78ejnoy', '34firtu', '12dgoo', '5@abdv', '15@ahiisv', '$$$%%&&&^^', 'acelnor', '1firtu', '!@ABCds', '23klloy', 'cciinoo', '0 9eoor', 'eprssy', 'benorz', '123bmn', '3eilrsv', '456agu', '1agnrruy', '2ceeip', '34dglo', '456bde', '123489abc', 'eeefrrw', '!3firtu', '2afmry', 'gnrtuu', 'abdmoy', 'aagrttu', 'cikpp u', 'aaaadijvwy', '12korw', 'eestwy', '12345bmnv', 'cginnnu', 'abbyzz', 'cdejmy', 'bhmoor', '78pppu', '0267df', '12abcjm', '67hmotu', '56cipsy', '2firtu', 'aaghjrtu', 'htttwz', '4 56hmt', '1klloy', '12ahtty', '2aemty', 'aaalmmy', 'llotuy', '4aestwy', 'aanruwy', '1aceimn', '45adegnr', 'aennoy', '12fnnoy', '$$%&&*^^^^', '%&&FFFGGGGGGHHHHJV ^', 'FFGGHHHfgv', 'FFFGGHHRTYY', '$%%%&^^^^', 'FFGGHHHJJNRTY', 'FRRTTTTTYYY', '3445FFGGHHf', '567FFFGGHHHTVY', '5566667^', '!###$$$$%@ @', 'BDDFGG', 'FGGGHHHHJJY', '%%789^^^', 'DFFGGHHHJTUY', '$%%%&*^^^^', 'GGHHHJVY', 'DFFFGGHHTTYY', '%&&*^', 'JTTUUY', '%&&(())**^ ^', 'DDFGHHJJJKRT', 'ddffhhjjsu', '15@ahiisv', '$$$%%&&&^^', 'acelnor', '1firtu', '!@ABCds', '23klloy', 'cciinoo', '09eoor', 'eprssy', 'benorz', '123bmn', '3eilrsv', '456 agu', '1agnrruy', '2ceeip', '34dglo', '456bde', '123489abc', 'eeefrrw', '!3firtu', '2afmry', 'gnrtuu', 'abdmoy', 'aagrttu', 'cikppu', 'aaaadijvwy', '12korw', 'eestwy', '12345bmnv' , 'bdgiilnu', '.Baahll', 'Baahll', '.ddees', 'efhrrtu', '"Aaaiknstv', 'aeinnottt', '.ghloruy', 'eghilnt', 'abcmot', 'ghinosw', '.abetuy', 'Aaaikntv', 'bceemos', 'definrs', 'Maahhiimst', ' .deilorss', 'eimoprss', '"Aaaiknstv', ',hnoor', 'ghhotu', '"denost', 'Daaeensv', 'aimnoprt', 'Rbeels', 'aefiilnrstt', 'Maahhiimst', '"Baahlls', 'ceeginrt', 'deglno', 'aesttu', 'aesttu' , 'accehst', 'aeelrsv', 'befilry', 'ceiintz', '.Baaabhilu', 'ceiinstz', 'dginnorrsuu', 'Baaabhilu', 'beeilllorsuy', '"Baahlls", 'aegnr', 'aesttu', '.deiinoopst', 'Baahll', 'addemns', 'aeeg inorrtt', 'adgrsu', '.beeilnoprss', 'degiisssu', 'efhilms', 'acdell', '"Baahlls', '.aeqrrstu', 'aceepss', 'cceflissssuuy', 'Daaeensv', 'agiknt', 'dgikmno', '.achiort', 'eehorvw', 'deoppst' , '"Baadhrs', 'cosstu', ',adgrsu', 'Kaaapptt', 'deeipst', 'abdeehs', 'Baadhr', 'adeertt', '.Daaeensv', 'Abimrsu', 'acehrs', '.Rbeels', 'Kaaapptt', 'aceghrs', 'aafiilmr', 'hosstu', '"""Ba aabhilu', 'dginnorrsuu', 'beirst', '"Kaaappstt', 'deilorss', 'ccddee', 'bciistu', '78pppu', '15bdduy', 'egilmn', 'ekrsty', 'aehstw', '2Eelrsw', 'lllouy', '#@aiprs', '12dglo', '5@abdv ', 'Ehhmny', '3acden', '2Ehnnoy', '1aceimn', '1achiimny', '12abbcg', '!bghitu', 'ddemnor', '123ainr', '!123wx', '123wx', '@alnor', '000EFgh', '!Aafgkk', '1eeikmn', '7behllo y', '12dglo', '1doxxy', '!@ehllo', '!Aafgkk', '123bcv', '1innpy', '2eeelmstt', 'ccders', 'chiinn', '67gnnoy', '12abbcg', '3acden', '!imssu', 'ccehik', '3alloy', '2Ehnnoy', '15bdduy ', 'bciistu', '4ddgloy', '123orw', '34afll', '89abhh', 'lllouy', '!elouv', 'cdnrtwy', '000EFgh', 'cfoxxy', 'cddent', 'fhhisy', '45eghnru', 'beloovy', 'egilmn', 'aabklnno', '!!EFgh', '23 illopw', 'aaclnor', '34adeq', '2acjrt', '2eoxxy', '78ejnoy', '34firtu', '12dgoo', '5@abdv', '15@ahiisv', '$$$%%&&&^^', '4aestwy', 'aanruwy', '1aceimn', '45adegnr', 'aennoy', '12fnnoy', '$$%&&*^^^^', '%&&FFFGGGGGGHHHHJV^', 'FFGGHHHfgv', 'FFFGGHHRTYY', '$%%%&^^^^', 'FFGGHHHJJNRTY', 'FRRTTTTTYYY', '3445FFG GHHf', '567FFFGGHHHTVY', '5566667^', '!###$$$$%@@', 'BDDFGG', 'FGGGHHHHJJY', 'adeiimnnoppstt', 'eehorvw', 'bdeeosss', 'adeenrtuv', 'aimnnotu', 'denpss', 'ginrty', 'efmoprrs', 'aeprry', 'ghinop', 'bdeeinot', ',ginrty', 'giilnnovv', 'ginopru', 'bcekstu', 'Lagimn', '.adeelpst', 'ddegiloss', 'Lagimn', 'ghinosw', 'ehmoosw', 'aehmnprsuu', '.eghnrstt', 'aceirrs', 'bmoott', ',aaefllrtw', 'aeeilrsz', 'eefiimnn', 'adehsw', 'efhrrtu', 'adeimottv', 'eenrtuv', 'aimnnotu', 'beglnos', 'cceflissssuuy', 'acelss', 'aimnnotu', 'Aaaikntv ', 'acdehs', 'deilorss', 'dgikmno', 'acdell']

Sorting the different length of strings in list

Test case 4:

Before sorting:

sorting(["^&&**)(*)","HJGHFT","(*&*^&%)","HGNUYGHJGJH","YTR%^$^%R&^T","HJNGVHFHF","HGFHBFGHCGHFYTF","&^%&^*&&()","GFVBHFH GB","&*^&^&%vgvfg","UTYHTFGHFGHTF","IUYTGHVHV",'Outside', 'enormous', 'waterfall,', 'Sivagami', 'carrying', 'tired,', 'injured,', 'exhausted', 'realizes', 'soldiers', 'following', 'strategically', 'places', 'swords', 'before', 'fleeing.', 'accidentally', 'caught','current', 'unable', 'shore.', 'Sivagami', 'Shiva,', "evil's", 'destruction', 'mistakes,', 'Mahendra', 'Baahubali', 'light.', 'drowns', 'before', 'holding', 'Mahendra', 'surface', 'villagers', 'villagers', 'Amburi', 'tribe,', 'reside', 'worship', 'Shiva.', 'leader', 'village,','discovers', 'drowned', 'evaded', 'soldiers', 'through', 'secret', 'escape', 'Sivagami', 'pointed', 'towards', 'mountain', 'before', "Sanga's", 'husband', 'realizes', 'refuses', 'worrying', 'safety.', 'decides', 'Shivudu,', 'Shivu.', 'Shivudu', 'young,', 'acrobatic,', 'adventurous,', 'hearted',"Sanga's", 'disappointment', 'however', 'obsessed', 'adventure', 'mountain', 'spends', 'trying', 'performs', 'prayer', 'hoping', 'obedient', 'trying,','involving', 'pouring', 'buckets', 'Lingam', 'pedestal.', 'dislodges', 'Lingam', 'showing', 'somehow', 'superhuman', 'strength.', 'carries', 'bottom', 'waterfall,','realizes', 'feminine', 'washed', 'further', 'motivated', 'venture', 'mountain', 'belongs', 'successfully', 'scales', 'mountain', 'Avantika', 'chased', 'soldiers','kingdom', 'called', 'Mahishmati.', 'Avantika', 'damsel', 'slaughter', 'soldiers.', 'Avantika', 'reports', "tribe's", 'leader,', 'rebels', 'hailing', 'fallen', 'kingdom','Kuntala.', 'Varma,', 'declares', 'liberate', 'Mahishmati', 'emperor', 'Bhallaladeva', 'Bhalla.', 'Bhalla', 'holding', "Varma's", 'sister', 'Devasena', 'hostage,', 'torturing','basis.', 'Avantika', 'Kattappa,', 'rightous', 'warrior', 'residing', 'Mahishmati,', 'cause.', 'confirms', 'Kattappa', 'motivation', 'royals', 'Mahishmati', 'ancestors', 'Kattappa', 'oversees', 'weapon', 'manufacturing', 'Mahishmati,', "Bhalla's", 'achieved', 'through', 'labor.', 'Kattappa', 'visited', 'weapon', 'trader', 'befriends', 'sharing','duties', 'Kattappa', 'skilled', 'strong', 'warrior', 'lineage', 'despite', 'general', 'commander', "Bhalla's", 'birthday', 'upcoming,', 'perfect', 'opportunity', 'rescue','Devasena.', 'granted', 'Avantika,', 'painting', 'resting', 'earlier.', 'Though', 'accused', 'neglecting', 'beauty,', 'assures', 'mission', 'anything.', 'kingdom', 'Mahishmati','unjust', 'treatment', 'towards', 'citizens', 'controlling', 'obsessed', 'Bhallaladeva.', 'living', 'Bhalla', 'father', 'Bijjaladeva', 'Prince', 'Bhadrudu', '(alias', 'Bhadra).',"Bhalla's", 'captured', 'forest', 'strenght.', 'defeats', 'notices', 'Kattappa', 'killing', 'distracted.', 'Bhalla', 'Kattappa', 'Kattappa', 'badly,', 'wonders', 'Kattappa.','remains', 'loyal.', 'decides', 'Kattappa', 'release', 'Devasena.', 'Bhalla', 'allows', 'Kattappa', 'refuses.', 'Kattappa', 'visits', 'Devasena', 'Devasena', 'refuses', 'frustrated,','spending', 'building', 'Bhalla.', 'Bhalla', 'deeds.', 'further', "Avantika's", 'attention', 'roughly.', 'lighten', 'combat', 'showing', 'beauty.', 'Avantika', 'becomes', 'friends', 'Mahishmati','soldiers.', 'promises', "Avantika's", 'honor,', 'though', "doesn't", 'Devasena', 'important', 'Rebels', 'infiltrates', 'Mahishmati', "Bhalla's", 'erecting', 'golden', 'statue', 'statue', 'catches','reveals', 'briefly', 'citizen', 'Baahubali.', 'citizens', 'surrounding', 'Baahubali', 'rebelliously,', "Bhalla's", 'anger.', 'statue', 'positioned,', 'Bhalla', 'demands', 'interrogate', 'guards','responsible.', 'disguises', 'himself', 'called', "Bhalla's", 'quarters.', 'escapes', 'successfully', 'Devasena', 'taking', 'kingdom', 'chariot.', 'however', 'stopped', "Bhadra's", 'scouts', 'guards,','Kattappa', 'despite', 'beheads', 'Bhadra', 'treated', 'Devasena.', 'Amburis', 'search', 'Rebels.', 'Kattappa', 'charges', 'familiar', 'shouts', "'Baahubali'", 'surrounding', 'tribes', "Kattappa's", 'soldiers','cdecde', 'biscuit', 'pppu78', 'buddy15', 'mingle', 'keystr', 'swetha', 'Elsewr2', 'lolluy', 'paris@#', 'gold12', 'davb5@', 'Enmhyh', 'dance3', 'Ehonny2', 'cinema1', 'chinmayi1', '12bgabc', 'github!', 'redmond', 'rain123', 'wx!123','12345abc', 'alron@', 'EFgh000', 'Akka!fg', 'enkemi1','helloby7', 'gold12', 'doxxy1', 'hel!@lo', 'Akka!fg', 'c1v2b3', 'pinny1', 'letsmeet2', 'drescc', 'chinni', 'gonny67', '12bgabc', 'dance3', '!!missu', 'chicke', 'aolly3', 'Ehonny2', 'buddy15','biscuit', 'golddy4', 'w1o2r3', 'fall34', 'ab89hh', 'lolluy', '!loveu', 'dntwryc', 'EFgh000', 'foxxyc', 'cdednt', 'fishhy', 'hunger45','loveboy','mingle','bankloan','EFgh!!','pillow23','carloan','qa34ed','tracj2','eoxxy2','enjoy78','fruit34','good12','davb5@','shaivi@15','"%$^$&%&$^&",'carlon e', 'fruit1', 'ABC@!sd', 'kolly23', 'iconoic', 'oreo09', 'pressy', 'bronze', 'm1n2b3', 'silver3', 'aug456', 'ruangry1', 'piece2', 'gold34', 'bed456', 'abc123894', 'werfree', 'fruit!3', 'farmy2','guntur', 'madboy', 'gutarat', 'pickup', 'vijayawada', 'work12', 'sweety', '12345mnbv', 'cunning', 'babyzz', 'cdemjy', 'broomh', 'pppu78', '7620df', 'abc12mj', 'mouth67','spicy56','friut2','gujarath','wtztht','mht654','kolly1','hatty12','meaty2','malayam','tollyu','sweaty4','runaway','cinema1','danger45','aeonny','12fonny','"^&%^$$

^*&^","GFHGFHGFHJG""&^%&GVGH","FGHGFHgfv","TGFHYRYFHGF","%^$^%%^&^","HNJGJHGFHRFTY","YTTTRFYTYTR","4354FGHFHGf","HGH FHFYTFGV675","656^6567","#$@%$@!$##$","DFGBDG","JHGJGHHYGFH"])

After sorting:

['&&())***^', 'FGHHJT', '%&&()**^', 'GGGHHHJJNUY', '$%%&RRTTY^^^', 'FFGHHHJNV', 'BCFFFFGGGHHHHTY', '%&&&&()*^^', 'BBFFGGHHV', '%&&&**^^fggvv', 'FFFGGGHHHTTTUY', 'GHHITUVVY', 'Odeistu', 'emnoorsu', ',aaefllrtw', 'Saagiimv', 'acginrry', ',deirt', ',deijnru', 'adeehstux', 'aeeilrsz', 'deilorss', 'fgillno ow', 'aacegillrstty', 'acelps', 'dorssw', 'beefor', '.eefgiln', 'aaccdeillnty', 'acghtu', 'cenrrtu', 'abelnu', '.ehors', 'Saagiimv', ',Sahiv', "'eilsv", 'cdeinorsttu', ',aeikmsst', 'Maadeh nr', 'Baaabhilu', '.ghilt', 'dnorsw', 'beefor', 'dghilno', 'Maadehnr', 'acefrsu', 'aegillrsv', 'aegillrsv', 'Abimru', ',beirt', 'deeirs', 'hioprsw', '.Sahiv', 'adeelr', ',aegillv', 'cdeiorssv', 'ddenorw', 'addeev', 'deilorss', 'ghhortu', 'ceerst', 'aceeps', 'Saagiimv', 'deinopt', 'adorstw', 'aimnnotu', 'beefor', "'Saagns", 'abdhnsu', 'aeeilrsz', 'eefrssu', 'ginorrwy', '.aefst y', 'cddeeis', ',Sdhiuuv', '.Shiuv', 'Sdhiuuv', ',gnouy', ',aabcciort', ',adenorstuuv', 'adeehrt', "'Saagns", 'adeiimnnoppstt', 'eehorvw', 'bdeeosss', 'adeenrtuv', 'aimnnotu', 'den pss', 'ginrty', 'efmoprrs', 'aeprry', 'ghinop', 'bdeeinot', ',ginrty', 'giilnnovv', 'ginopru', 'bcekstu', 'Lagimn', '.adeelpst', 'ddegiloss', 'Lagimn', 'ghinosw', 'ehmoosw', 'aehmnpr suu', '.eghnrstt', 'aceirrs', 'bmoott', ',aaefllrtw', 'aeeilrsz', 'eefiimnn', 'adehsw', 'efhrrtu', 'adeimottv', 'eenrtuv', 'aimnnotu', 'beglnos', 'ccefllssuuy', 'acelss', 'aimnnotu', 'Aaa iknnv', 'acdehs', 'deilorss', 'dgikmno', 'acdell', '.Maahhiimst', 'Aaaiknnv', 'adelms', 'aeghlrstu', '.deilorss', 'Aaaiknnv', 'eoprrst', "'beirst", ',adeelr', 'beelrs', 'aghiiln', 'aeflln', ' dgikmno', '.Kaalntu', ',Vaamr', 'acdeelrs', 'abeeilrt', 'Maahhiimst', 'eemoprr', ',Baaaadehlllv', '.Baahll', 'Baahll', 'dghilno', "'Vaamrs", 'eirsst', 'Daaeensv', ',aeghost', 'ginorr ttu', '.abiss', 'Aaaiknnv', ',Kaaapptt', 'ghiorstu', 'aiorrrw', 'degiinrs', 'Maahhiimst', '.acesu', 'cfimnors', 'Kaaapptt', 'aiimnoottv', 'alorsy', 'Maahhiimst', 'acenorsst', 'Kaaapptt', 'eeeorssv', 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"''Baaabhilu", 'dginnorrsuu', 'beirst', "'Kaaapptt", 'deilors s', 'ccddee', 'bciistu', '78pppu', '15bdduy', 'egilmn', 'ekrsty', 'aehstw', '2Eelrsw', 'lllouy', '#@aiprs', '12dglo', '5@abdv', 'Ehhmny', '3acden', '2Ehnnoy', '1aceimn', '1achiim ny', '12abbcg', '!bghitu', 'ddemnor', '123ainr', '!123wx', '!123wx', '@alnor', '000EFgh', '!Aafgkk', '1eeikmn', '7behlloy', '12dglo', '1doxxy', '!@ehllo', '!Aafgkk', '123bcv', ' 1innpy', '2eeelmstt', 'ccders', 'chiinn', '67gnnoy', '12abbcg', '3acden', '!imssu', 'ccehik', '3alloy', '2Ehnnoy', '15bdduy', 'bciistu', '4ddgloy', '123orw', '34afll', '89abhh', 'lllo uy', '!elouv', 'cdnrtwy', '000EFgh', 'cfoxxy', 'cddent', 'fhhisy', '45eghnru', 'beloovy', 'egilmn', 'aabklnno', '!!EFgh', '23illopw', 'aaclnor', '34adeq', '2acjrt', '2eoxxy', '78ejno y', '34firtu', '12dgoo', '5@abdv', '15@ahiisv', '$$$%%&&^^', 'acelnor', '1firtu', '!@ABCds', '23klloy', 'cciinoo', '09eoor', 'eprssy', 'benorz', '123bmn', '3eilrsv', '456agu', '1agnrruy', '2ceeip', '34dglo', '456bde', '123489abc', 'eeefrrw', '!3firtu', '2afmry', 'gnrtuu', 'abdmoy', 'aagrttu', 'cikppu', 'aaaadijvwy', '12korw', 'eestwy', '12345bmnv', 'cg innnu', 'abbyzz', 'cdejmy', 'bhmoor', '78pppu', '0267df', '12abcjm', '67hmotu', '56cipsy', '2firtu', 'aaghjrtu', 'htttwz', '456hmt', '1klloy', '12ahtty', '2aemty', 'aaalmmy', 'llotu y', '4aestwy', 'aanruwy', '1aceimn', '45adegnr', 'aennoy', '12fnnoy', '$$%&&*^^^', '%&&FFFGGGGGGHHHHJV^', 'FFGGHHfgv', 'FFFGGHHRTYY', '$%%%&^^^ ^', 'FFGGHHHJJNRTY', 'FRRTTTTTYYY', '3445FFGGHHf', '567FFFGGHHHTVY', '5566667^', '!###$$$$%@@', 'BDDFGG', 'FGGGHHHHJJY']

Sorting the different length of strings in list

Test case 5:

Before sorting:

sorting(['beheads', 'belongs', 'birthday', 'biscuit', 'biscuit', 'bottom', 'briefly', 'bronze', 'broomh', 'buckets', 'buddy15', 'buddy15', 'building', 'c1v2b3', 'called', 'called', 'capt ured', 'carloan', 'carlone', 'carries', 'carrying','catches', 'caught', 'cause.', 'cdecde', 'cdednt', 'cdemjy', 'charges', 'chariot.', 'chased', 'chicke', 'chinmayi1','chinni', 'cinema1', ' cinema1', 'citizen', 'citizens', 'citizens', 'combat', 'commander', 'confirms', 'controlling','cunning', 'current', 'damsel', 'dance3', 'dance3', 'danger45', 'davb5@', 'davb5@', 'd ecides', 'decides', 'declares','deeds.', 'defeats', 'demands', 'despite', 'despite', 'destruction', 'disappointment', 'discovers', 'disguises','dislodges', 'distracted.', 'dntwryc', "doe sn't", 'doxxy1', 'drescc', 'drowned', 'drowns', 'duties', 'earlier.','emperor', 'enjoy78', 'enkemi1', 'enormous', 'eoxxy2', 'erecting', 'escape', 'escapes', 'evaded', "evil's", 'exhau sted','fall34', 'fallen', 'familiar', 'farmy2', 'father', 'feminine', 'fishhy', 'fleeing.', 'following', 'forest', 'foxxyc','friends', 'friut2', 'fruit!3', 'fruit1', 'fruit34', 'frustrated.', 'further ', 'further', 'general', 'github!','gold12', 'gold12', 'gold34', 'golddy4', 'golden', 'gonny67', 'good12', 'granted', 'guards', 'guards,', 'gujarath','guntur', 'gutarat', 'hailing', 'hatty1 2', 'hearted', 'hel!@lo', 'helloby7', 'himself', 'holding', 'holding', 'honor,','hoping', 'hostage,', 'however', 'however', 'hunger45', 'husband', 'iconoic', 'important', 'infiltrates', '

injured,','interrogate', 'involving', 'keystr', 'killing', 'kingdom', 'kingdom', 'kingdom', 'kingdom', 'kolly1', 'kolly23','labor.', 'leader', 'leader,', 'letsmeet2', 'liberate', 'light.', 'lighten', 'lineage', 'living', 'lolluy', 'lolluy','loveboy', 'loyal.', 'm1n2b3', 'madboy', 'malayam', 'manufacturing', 'meaty2', 'mht654', 'mingle', 'mingle', 'mission','mistakes,', 'motivated', 'motivation', 'mountain', 'mountain', 'mountain', 'mountain', 'mouth67', 'neglecting','notices', 'obedient', 'obsessed', 'obsessed', 'opportunity', 'oreo09', 'oversees', 'painting', 'paris@#','pedestal.', 'perfect', 'performs', 'pickup', 'piece2', 'pillow23', 'pinny1', 'places', 'pointed', 'positioned,','pouring', 'pppu78', 'pppu78', 'prayer', 'pressy', 'promises', 'qa34ed', 'quarters.', 'rain123', 'realizes','realizes', 'realizes', 'rebelliously,', 'rebels', 'redmond', 'refuses', 'refuses', 'refuses.', 'release', 'remains','reports', 'rescue', 'reside', 'residing', 'responsible.', 'resting', 'reveals', 'rightous', 'roughly.', 'royals','ruangry1', 'runaway', 'safety.', 'scales', 'scouts', 'search', 'secret', 'shaivi@15', 'sharing', 'shore.', 'shouts','showing', 'showing', 'silver3', 'sister', 'skilled', 'slaughter', 'soldiers', 'soldiers', 'soldiers', 'soldiers','soldiers.', 'soldiers.', 'somehow', 'spending', 'spends', 'spicy56', 'statue', 'statue', 'statue', 'stopped','strategically', 'strenght.', 'strength.', 'strong', 'successfully', 'successfully', 'superhuman', 'surface','surrounding', 'surrounding', 'mighty', '(Prabhas),', 'aspires', 'waterfall', 'parbat)', "what's", 'there.', 'curiosity','mother', 'dangerous.', 'failed', 'attempts', 'finally', 'Looking', '(Tamannaah', 'Avantika)', 'mysterious', 'discovers','unlike', 'dreams,', 'rebellious', 'warrior', 'fighting', 'against', 'Bhallala', 'Daggubati),', 'captured', 'Devasena','(Anushka', 'Shetty)', 'years.', 'indulges', 'guerrilla', 'warfare', 'against', 'rescue', 'queen.', 'initially', 'doubts',"shiva's", 'intentions,', 'seeing', 'realises', 'innocent.', 'pledges', 'mission.', 'sneaks', 'Bhallala', "deva's", 'Mahismathi','kingdom', 'rescue', 'Devasena', 'almost', 'manages', 'caught.', "king♀'s", 'kattapa', 'attacks', 'strength,', 'realises', 'Amarendra',"Bahubaali's", '(Prabhas', 'deserving', 'Mahismathi', 'kingdom.', 'flashback', 'Amarendra', 'Baahubali', 'Bhallala', 'cousin', "brother.',Though", "Bhallala's", 'father', 'Bajjala', '(Nasser)', 'brother,', "Shiva's", 'grandfather', 'crowned', 'worthy.', 'Bajjala', 'resents','decision.', 'brother', 'Bajjala', 'wishes', 'Bhallala', 'emperor', "king's", 'before', "(Shiva's', 'father', 'Amarendra', 'Baahubali)', 'another','kingdom.', "Bajjala's", 'Sivagami', '(Ramya)', 'feisty.', 'impartial.', 'raises', 'children', 'Bhallala', 'Baahubali', 'proclaims', 'whoever', 'proves','deserving', 'crowned', 'Bajjala', "Bhallala's", 'tactics', 'witnessing', 'battle', 'against', 'Kalkeyas', '(tribal', "rivals)', 'Sivagami', 'announces','Baahubali', 'people.', 'sharing', 'Kattapa', 'interrupted', 'asked,', 'father', 'strong', '(Baahubali)', 'killed', 'Kattapa,', 'betrayed', 'life.'","GJHGFHF","^&%&*&*","HGHJGJHGJY","I&Y^UYGFYTRT","TUHGVHNFYHG","&^*%$*&()","UYGTHFG","(*&^%$)","(*&^%)","!@#$%^","KUJHYGJH","%$%^&*&HJG","6786786ghfh","&^GHFHF","JHGJHGHGt76t","JYHGHJGF","(*&^%$)","IUYTHGFD","IKUJHYFGT","(*&^%$#@)","GFDXFFVCGF","UYTHGFHFt","T^%^&%","#$%#$%$fghf","VCGFTGHFCVGH","CVHGFYHGFG","%^^%fghf675","YTRFTHGFHTGF","IKUYTGFD","$5f5ytr45","?FGBHFVhgf","HVGHFHTG","*I&^U%$RFDGH","TFGBCGF","UYTHGVHYF","^%&**%&5","GVCHGFGHV","FTFTFHGFYUTg","HGFYTFGVHF","^&%RTRFY&^TR","NBBJHYTGHY","HGBHYGHBg","*&^%&*^gbhjg","NHVHGFHGVGv","VNBGFHVFH","GVNBFHVGHFV65","67576VCFGHF54","HGHJGJHGJY","I&Y^UYGFYTRT","TUHGVHNFYHG","&^*%$*&()","UYGTHFG","(*&^%$)","(*&^%)","!@#$%^","KUJHYGJH","%$%^&*&HJG","6786786ghfh","&^GHFHF","JHGJHGHGt76t","JYHGHJGF","(*&^%$)","IUYTHGFD","IKUJHYFGT","(*&^%$#@)","GFDXFFVCGF","UYTHGFHFt","T^%^&%","#$%#$%$fghf","VCGFTGHFCVGH","CVHGFYHGFG","%^^%fghf675","YTRFTHGFHTGF","IKUYTGFD","$5f5ytr45","?FGBHFVhgf"])

After sorting:

['abdeehs', 'beglnos', 'abdhirty', 'bciistu', 'bciistu', 'bmoott', 'befilry', 'benorz', 'bhmoor', 'bcekstu', '15bdduy', '15bdduy', 'bdgiilnu', '123bcv', 'acdell', 'acdell', 'acdeprtu', 'aaclnor', 'acelnor', 'aceirrs', 'acginrry', 'accehst', 'acghtu', '.acesu', 'ccddee', 'cddent', 'cdejmy', 'aceghrs', '.achiort', 'acdehs', 'ccehik', 'chiinn', '1aceimn', '1aceimn', 'ceiintz', 'ceiinstz', 'abcmot', 'acdemmnor', 'cfimnors', 'cgillnnoort', 'cginnnu', 'cenrrtu', 'adelms', '3acden', '3acden', '45adegnr', '5@abdv', '5@abdv', 'cddeeis', 'cddeeis', 'acdeelrs', '.ddees', 'adeefst', 'addemns', 'deeipst', 'deeipst', 'cdeinorsttu', 'adeiimnnoppstt', 'cdeiorssv', 'degiisssu', 'ddegiloss', '.acddeirstt', 'cdnrtwy', '"denost", '1doxxy', 'ccders', 'ddenorw', 'dnorsw', 'deistu', '.aeeilrr', 'eemoprr', '78ejnoy', '1eeikmn', 'emnoorsu', '2eoxxy', 'ceeginrt', 'aceeps', 'aceepss', 'addeev', '"eilsv", 'adeehstux', '34afll', 'aeflln', 'aafiilmr', '2afmry', 'aefhrt', 'eefiimnn', 'fhhisy', '.eefgiln', 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'09eoor', 'eeeorssv', 'agiinnpt', '#@aiprs', '.adeelpst', 'ceefprt', 'efmoprrs', 'cikppu', '2ceeip', '23illopw', '1innpy', 'acelps', 'deinopt', 'deiinoopst', 'ginopru', '78pppu', '78pppu', 'aeprry', 'eprssy', 'eimoprss', '34adeq', '.aeqrrstu', '123ainr', 'aeeilrsz', 'aeeilrsz', 'aeeilrsz', 'beeilllorsuy', 'beelrs', 'ddemnor', 'eefrssu', 'eefrssu', '.eefrssu', 'aeeelrs', 'aeimnrs', 'eoprrst', 'ceersu', 'deeirs', 'degiinrs', '.beeilnoprss', 'eginrst', 'aeelrsv', 'ghiorstu', '.ghloruy', 'alorsy', '1agnrruy', 'aanruwy', '.aefsty', 'acelss', 'cosstu', 'acehrs', 'ceerst', '15@ahiisv', 'aghinrs', '.ehors', 'hosstu', 'ghinosw', 'ghinosw', '3eilrsv', 'eirsst', 'deiklls', 'aeghlrstu', 'deilorss', 'deilorss', 'deilorss', 'deilorss', '.deilorss', '.deilorss', 'ehmoosw', 'deginnps', 'denpss', '56cipsy', 'aesttu', 'aesttu', 'aesttu', 'deoppst', 'aacegillrstty', '.eghnrstt', '.eghnrstt', 'gnorst', 'ccefllsssuuy', 'ccefllsssuuy', 'aehmnprsuu', 'acefrsu', 'dginnorrsuu', 'dginnorrsuu', 'ghimty', '(),Paabhrs', 'aeiprss', 'aaefllrtw', ')aabprt', '"ahstw", '.eehrt', 'ciiorstuy', 'ehmort', '.adegnorsu', 'adefil', 'aempsttt', 'afillny', 'Lgiknoo', '(Taaaahmnn', ')Aaaikntv', 'eimorsstuy', 'cdeiorssv', 'eiklnu', 'ademrs', 'beeillorsu', 'aiorrrw', 'fgghiint', 'aaginst', 'Baaahlll', ')Daabggitu', 'acdeprtu', 'Daaeensv', '(Aahknsu', ')Sehtty', '.aersy', 'degilnsu', 'aegillrru', 'aaefrrw', 'aaginst', 'ceersu', '.eenqu', 'aiiillnty', 'bdostu', '"ahissv", '.eiinnnostt', 'eegins', 'aeeilrss', '.ceinnnot', 'deeglps', '.iimnoss', 'aeknss', 'Baaahlll', '"adesv", 'Maahhiimst', 'dgikmno', 'ceersu', 'Daaeensv', 'Daaeensv', 'aaegmns', '.acghtu', "'gikns♀', 'aaakptt', 'aackstt', 'aeghnrstt', 'aeeilrss', 'Aaademnrr', "'Baaabhilsu", '(Paabhrs', 'deeginrsv', 'Maahhiimst', '.dgikmno', 'aabcfhkls', 'Aaademnrr', 'Baaabhilu', 'Baaahlll', 'cinosu', '.behorrt', 'Tghhou', '"Baaahllls", 'aefhrt', 'Baaajjl', '()Naerss', ',behorrt', '"Sahisv", 'aadefghnrrt', 'cdenorw', '.hortwy', 'Baaajjl', 'eenrsst', 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'?BFFGHVfgh', 'FGGHHHTV', '$%&*DFGHIRU^', 'BCFFGGT', 'FGHHTUVYY', '%%&&**5^^', 'CFGGGHHVV', 'FFFFGHTTTUYg', 'FFFGGHHTVY', '%&&FRRRTTY^^', 'BBGHHJNTYY', 'BBGGHHHYg', '%&&**^^bgghj', 'FGGGHHHNVVv', 'BFFGHHNVV', '56BFFGGHHNVVV', '4556677CFFGHV', 'GGGHHHJJJY', '&FGIRTTUYYY^', 'FGGHHHNTUVY', '$%&&()**^', 'FGGHTUY', '$%&()*^', '%&()*^', '!#$%@^', 'GHHJJKUY', '$%%&&*GHJ^', '6667788fghh', '&FFGHH^', '67GGGHHHJJtt', 'FGGHHHJJY', '$%&()*^', 'DFGHITUY', 'FGHIJKTUY', '#$%&())*@^', 'CDFFFFGGVX', 'FFGHHTUYt', '%%&T^^', '##$$$%%ffgh', 'CCFFGGGHHTVV', 'CFFGGGHHVY', '%%567^^ffgh', 'FFFGGHHRTTTY', 'DFGIKTUY', '$4555frty', '?BFFGHVfgh']

Sorting the different length of strings in list