פונקצית SEARCH מצויינת

**def** search(dict,user\_str,text\_file\_lst):  
 first\_word=user\_str.split(**" "**)[0]  
 dict=dict[first\_word]  
 first\_key=list(dict.keys())[0]  
 first\_word\_len=len(first\_word)  
 user\_str=user\_str[first\_word\_len+1:]  
 my\_str = **""** my\_list=text\_file\_lst  
 stack = []  
 path=user\_str[1:]  
 **for** char **in** user\_str:  
 tup=(char,path,0)  
 dict=dict[tup]  
 my\_dict=dict  
 stack.append((user\_str[0],0,len(dict.keys())))  
 **while** len(stack)>0:  
 t=stack[-1]  
 stack.pop()  
 **if** t[1]+1<t[2]:  
 stack.append((t[0],t[1]+1,t[2]))  
 my\_dict = dict  
 **for** ch **in** t[0]:  
 keys=my\_dict.keys()  
 **for** k **in** keys:  
 **if** k[0]==ch:  
 my\_dict=my\_dict[k]  
 **break** k=list(my\_dict.keys())[t[1]]  
 **while** type(my\_dict[k])!=tuple:  
 **if**(len(list(my\_dict[k].keys()))>1):  
 stack.append((k[1],1,len(list(my\_dict[k].keys()))))  
 my\_dict=my\_dict[k]  
 d=list(my\_dict.keys())  
 k = list(my\_dict.keys())[0]  
 text\_file=my\_dict[k]  
 my\_list.append(text\_file)

**return** my\_list

פונקצית INIT מצויינת:

**import** os  
**import** json  
  
**from** search1 **import** search  
  
file\_list={}  
  
  
**def** insert\_dict2(my\_dict,line, file\_name):  
 big\_sentence=line  
 words\_list=line.split(**" "**)  
 **for** i **in** range(len(words\_list)):  
 first\_word=words\_list[0]  
 words\_list.pop(0)  
 **if** first\_word **not in** my\_dict:  
 my\_dict[first\_word]={}  
 orginal\_dict=my\_dict[first\_word]  
 index=len(first\_word)+1  
 line=line[index:].rstrip()  
 line+=**'\n'  
 if** line==**'\n'**:  
 orginal\_dict[my\_char] = file\_name  
 **else**:  
 path = **""** counter=0  
 **for** char **in** line:  
 **if** char!=**'\n'**:  
 path+=char  
 counter+=1  
 my\_char=char  
 **if** (char, path[1:],0) **not in** orginal\_dict:  
 orginal\_dict[(char, path[1:], 0)]={}  
 u=len(line)  
 **if** counter==len(line)-1:  
 orginal\_dict[(my\_char, path[1:], 0)] = (file\_name,big\_sentence)  
 **else**:  
 orginal\_dict=orginal\_dict[(char, path[1:], 0)]  
*#insert\_dict2({},"This is good boy", "aaa")***def** init(file\_path=**"b"**):  
 my\_dict={}  
 file\_index=-1  
 **for** root, dirs, files **in** os.walk(file\_path):  
 **for** file\_name **in** files:  
 file\_index+=1  
 file\_list[file\_index]=os.path.abspath(os.path.join(root, file\_name))  
 file = open(os.path.abspath(os.path.join(root, file\_name)), **"r"**, encoding=**"utf8"**)  
 **for** line **in** file:  
 insert\_dict2(my\_dict,line, file\_name)  
 **return** my\_dict