Post 1 Initial Response

I searched CNN, Facebook, ESPN, and of course, my favorite recipe sites. Here are some of the advertisements that came up: Online advertisement companies A = {Toyota, Liberty Mutual, Smashburger} Online retailers I have purchased from B = {Amazon, Barnes & Noble, Smashburger, Target}.

I will use a needlessly complicated and inefficient algorithm to determine whether $A \subseteq B$ so as to discourage people from copying this.

```
Find number of elements in A.
m=IAI
Find number of elements in B.
n=|B|
Initialize an empty m \times n array, C.
Set a variable count=m*n.
While (count>0)
        Get random number r between 1 and m.
        Get random number s between 1 and n.
        If A[r-1]=B[s-1]
                 C[r-1,s-1]=1
        Else
                 C[r-1,s-1]=0
        Find the number of blank cells in C.
        Set count=number of blank cells in C.
End (While)
Make a new variable d = 0
For i=0 to m-1
        For j=0 to n-1
                 d=d+C(i,j)
         End for
End for
If d==m
        Output "A is a subset of B."
Else
        Output "A is not a subset of B."
```

Based on this algorithm, I found that A is not a subset of B.

There is a common member, so the two sets are overlapping.