1 //in this pseudocode, array answer is an array that contain another array (2 dimensions array)

2 //first array answer is an array consist of 1 empty array

3

4 algorithm helper\_subset(array A, array answer, array temporary)

5 for i = 0 to length(A) (exclusive):

6 copy answer to temporary;

7 for j = 0 to length(answer) (exclusive)

8 add A[i] to answer[j]

9 end for

10 append temporary to answer

11 //with each step, we double the size of the array answer

12 endfor

13

14 //after length(A) step (i iterate from 0 to length(A) - 1)

15 //the size of array answer went from 1 to 2 power of A (2\*\*A)

16 //which is the numbers of subset of an array of size length(A)

17 //and so the math checked out!

18

19 algorithm subset(array A)

20 declare and initialize array answer and temporary

21 helper\_subset(A, answer, temporary)

22 return answer