

**Αλγόριθμος:** DoAIGotSkills

**Δεδομένα:** participants, skills, participants\_skills

**Αποτελέσματα:** skills\_taktopoihthkan, number\_of\_skills, thesh\_max, max, thesh, n

1	<b>για</b> i <b>από</b> 1 <b>μέχρι</b> skills
2	skills_taktopoihthkan(i) ← 1
3	<b>για</b> i <b>από</b> 1 <b>μέχρι</b> participants
4	number_of_skills(i) ← 0
5	<b>για</b> i <b>από</b> 1 <b>μέχρι</b> participants
6	thesh_max(i) ← 0
7	<b>για</b> i <b>από</b> 1 <b>μέχρι</b> participants
8	<b>για</b> j <b>από</b> 1 <b>μέχρι</b> skills
9	<b>αν</b> participants_skills(i)(j)=2
10	number_of_skills(i) ← number_of_skills(i)+1
11	k ← -1
12	<b>όσο</b> flag!=1
13	flag ← 1
14	max ← -1
15	<b>για</b> i <b>από</b> 1 <b>μέχρι</b> participants
16	<b>αν</b> number_of_skills(i)>max
17	max ← number_of_skills(i)
18	thesh ← i
19	k ← k+1
20	thesh_max(k) ← thesh
21	n ← 0
22	<b>για</b> j <b>από</b> 1 <b>μέχρι</b> skills
23	<b>αν</b> participants_skills(thesh_max(k))(j)=2&&skills_taktopoihthkan(j)=1
24	n ← n+1
25	skills_taktopoihthkan(j) ← 2
26	<b>για</b> t <b>από</b> 1 <b>μέχρι</b> participants
27	<b>αν</b> participants_skills(t)(j)=2
28	number_of_skills(t) ← number_of_skills(t)-1
29	<b>αν</b> n=0
30	k ← k-1
31	number_of_skills(thesh_max(k+1)) ← 0
32	number_of_skills(thesh_max(k)) ← 0
33	<b>για</b> i <b>από</b> 1 <b>μέχρι</b> participants
34	<b>αν</b> number_of_skills(i)!=0
35	flag ← 0
36	<b>για</b> i <b>από</b> 1 <b>μέχρι</b> k+1
37	<b>ΤΥΠΩΣΕ</b> thesh_max(i)

Δοκιμή με τα δεδομένα του πίνακα 1:

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The company will hire the participants with the following numbers ID: 5, 3, 1.  
Press any key to continue . . .
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Δοκιμή με τα δεδομένα του πίνακα 2:

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The company will hire the participants with the following numbers ID: 3, 7, 1, 2.  
Press any key to continue . . .
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