

```
1.  /*****  galeshapleystable by Shadman  *****/
2.  #include <bits/stdc++.h>
3.  using namespace std;
4.  int man[1001][1001],wom[1001][1001],bor[1001],bou[1001],cnt[1001];
5.  queue<int>Q;
6.  int main()
7.  {
8.      int a,b,c,d,e,i,j,k,p,q,r,T;
9.      cin>>T;
10.     for(i=1;i<=T;i++)
11.     { while(!Q.empty())Q.pop();
12.       memset(cnt,0,sizeof(cnt));
13.       memset(bor,0,sizeof(bor));
14.       memset(bou,0,sizeof(bou));
15.
16.       scanf("%d",&a);
17.       for(j=1;j<=a;j++)
18.       {
19.           for(k=1;k<=a;k++)
20.           {
21.               scanf("%d",&wom[j][k]);
22.           }
23.           cnt[j]=1;
24.           Q.push(j);
25.       }
26.       for(j=1;j<=a;j++)
27.       {
28.           for(k=1;k<=a;k++)
29.           {
30.               scanf("%d",&b);
31.               man[j][b]=k;
32.           }
33.       }
34.
35.       while(!Q.empty())
36.       {
37.           c=Q.front();
38.           Q.pop();
39.           d=wom[c][cnt[c]];
40.           cnt[c]++;
41.
42.           if(!bou[d])
43.           {
44.               bou[d]=c;
45.               bor[c]=d;
46.
47.           }
48.           else if(man[d][bou[d]]>man[d][c])
49.           {
50.               e=bou[d];
51.               bor[e]=0;
52.               bou[d]=c;
53.               bor[c]=d;
54.               Q.push(e);
55.           }
56.           else
57.               Q.push(c);
58.       }
```

```
59.     for(int j = 1; j <= a; ++j)
60.         printf("%d\n", bor[j]);
61.         if(i<T) putchar('\n');
62.
63.
64.
65. }
66.
67.
68. return 0;
69.
70.
71.
72. }
```