#include <stdio.h>

int pref[20][20];

int assigned[20];

int n;

int isAssigned(int topic) {

for (int i = 0; i < n; i++) {

if (assigned[i] == topic) {

return 1;

}

}

return 0;

}

int assignTopics(int student) {

if (student == n) {

return 1;

}

int count = 0;

for (int topic = 0; topic < n; topic++) {

if (pref[student][topic] == 1 && !isAssigned(topic)) {

assigned[student] = topic;

count += assignTopics(student + 1);

assigned[student] = -1;

}

}

return count;

}

int main() {

int t;

scanf("%d", &t);

while (t--) {

scanf("%d", &n);

for (int i = 0; i < n; i++) {

for (int j = 0; j < n; j++) {

scanf("%d", &pref[i][j]);

}

}

for (int i = 0; i < n; i++) {

assigned[i] = -1;

}

printf("%d\n", assignTopics(0));

}

return 0;

}