#include <stdio.h>

#include <ctype.h>

#define MAX 10

char prod[MAX][MAX];

int n;

void findFirst(char c)

{

if (!isupper(c))

{

printf("%c ", c);

return;

}

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

{

if (prod[i][0] == c)

{

if (!isupper(prod[i][2]) || prod[i][2] == 'e')

printf("%c ", prod[i][2]);

else

findFirst(prod[i][2]);

}

}

}

int main()

{

printf("Enter number of productions: ");

scanf("%d", &n);

printf("Enter productions:\n");

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

scanf("%s", prod[i]);

printf("\nFIRST sets:\n");

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

{

printf("FIRST(%c) = { ", prod[i][0]);

findFirst(prod[i][0]);

printf("}\n");

}

return 0;

}