```c
printf("--------------------\n");
printf("       SGESV\n");
printf("--------------------\n");

printf("Allocating Matrices\n");
A = (culaFloat*)malloc(N*N*sizeof(culaFloat));
B = (culaFloat*)malloc(N*sizeof(culaFloat));
X = (culaFloat*)malloc(N*sizeof(culaFloat));
IPIV = (culaInt*)malloc(N*sizeof(culaInt));
if(!A || !B || !IPIV)
    exit(EXIT_FAILURE);

printf("Initializing CULA\n");
status = culaInitialize();
checkStatus(status);
```