C:

```
#include <stdio.h>

#define gc getchar_unlocked

int getn(){
  int n = 0, c = gc();
  while(c < '0' || c > '9') c = gc();
  while(c >= '0' && c <= '9')
    n = (n<<3) + (n<<1) + c - '0', c = gc();
  return n;
}

int main(){
  char a[100][100];
  int T,N,M, i,j;

  T = getn();
  while(T--){
    N = getn(), M = getn();

    for(i = 0; i < N; i += 3)
      for(j = 0; j < M; ++j)
        a[i][j] = '#';
    for(i = 1; i < N; i += 3)
      for(j = 0; j < M; ++j)
        a[i][j] = (j&1) ? '.' : '#';
    for(i = 2; i < N; i += 3){
```

```
    if(i == N-1){
      for(j = 0; j < M; ++j)
        a[i][j] = (j&1) ? '.' : '#';
    }else{
      a[i][0] = '#', a[i][1] = '.';
      for(j = 2; j < M; ++j)
        a[i][j] = (j&1) ? '#' : '.';
    }
   }

   for(i = 0; i < N; ++i){
    for(j = 0; j < M; ++j)
      printf("%c", a[i][j]);
    printf("\n");
   }
 }
 return 0;
}
```

C++:

```
#include<cstdio>
#include<cstdlib>
#include<iostream>
#include<algorithm>
#include<cstring>
#include<queue>
#include<vector>
#include<map>
```

```
#include<set>
#include<stack>
#include<string>
#include<cmath>
#include<cctype>
#include<ctime>
#include<bitset>
using namespace std;
const int maxlongint=2147483647;
const int inf=1000000000;
char pr1[1010][1010],pr2[1010][1010];
int main()
{
	int T;
	cin>>T;
	while(T--)
	{
		memset(pr1,0,sizeof(pr1));
		memset(pr2,0,sizeof(pr2));
		int ans1=0,ans2=0;
		int n,m,n1,n2;
		cin>>n>>m;
		for(n1=1;n1<=n;n1++)
		{
			for(n2=1;n2<=m;n2++)

	if(n1%6==1||(n2==1&&n1%6!=4)||(n1%6==2&&n2%2==1)||(n1%6==0&&n2%2==1)||(n1%6==
3&&n2%2==0)||(n1%6==5&&n2%2==0)||(n1%6==4&&n2!=1))
					pr1[n1][n2]='#';
```

```
                else
                        pr1[n1][n2]='.';
}
if(m%2==0)
{
        for(n1=1;n1<=n-9||n1==n-7||(n1==n-8&&m%4==0);n1+=12)
        {
                pr1[n1+5][m]='#';
                pr1[n1+7][m]='#';
                pr1[n1+6][m]='.';
                pr1[n1+3][1]='#';
                pr1[n1+3][2]='.';
                pr1[n1+9][1]='#';
                pr1[n1+9][2]='.';
        }
}
if(m%2==1&&n%6==5)
{
        pr1[n-1][1]='#';
        pr1[n-1][2]='.';
        pr1[n][m]='#';
        pr1[n-2][m]='#';
        pr1[n-1][m]='.';
}
/*if(n%6==2&&m%2==0)
{
        pr1[n][m]='#';
        pr1[n-1][m]='.';
        pr1[n-2][m]='#';
```

```
                pr1[n-4][1]='#';
                pr1[n-4][2]='.';
        }*/
/*      if(n%6==5&&m%2==1)
        {
                pr1[n][m]='#';
                pr1[n-1][m]='.';
                pr1[n-2][m]='#';
                pr1[m-1][1]='#';
                pr1[m-1][2]='.';
        }*/
        if(n%6==3)
        {
                for(n2=1;n2<=m;n2++)
                        if(n2%4!=3)
                                pr1[n][n2]='#';
                        else
                                pr1[n][n2]='.';
                if(m%4==0&&n%12!=9)
                {
                        pr1[n][m-1]='#';
                        pr1[n][m-2]='.';
                }
        }
        if(n%6==0)
        {
                for(n2=1;n2<=m;n2++)
                        if(n2%4!=2)
                                pr1[n][n2]='#';
```

```
                else
                        pr1[n][n2]='.';
        if(m%4==3)
        {
                pr1[n-1][m]='#';
                pr1[n-2][m]='.';
                pr1[n-3][m]='#';
                pr1[n-2][1]='#';
                pr1[n-2][2]='.';
        }
}
for(n1=1;n1<=n;n1++)
{
        for(n2=1;n2<=m;n2++)

if(n2%6==1||(n1==1&&n2%6!=4)||(n2%6==2&&n1%2==1)||(n2%6==0&&n1%2==1)||(n2%6==
3&&n1%2==0)||(n2%6==5&&n1%2==0)||(n2%6==4&&n1!=1))
                        pr2[n1][n2]='#';
                else
                        pr2[n1][n2]='.';
}
if(n%2==1&&m%6==5)
{
        pr2[1][m-1]='#';
        pr2[2][m-1]='.';
        pr2[n][m]='#';
        pr2[n][m-2]='#';
        pr2[n][m-1]='.';
}
```

```
if(n%2==0)
{
	for(n1=1;n1<=m-9||n1==m-7||(n1==m-8&&n%4==0);n1+=12)
	{
		pr2[n][n1+5]='#';
		pr2[n][n1+7]='#';
		pr2[n][n1+6]='.';
		pr2[1][n1+3]='#';
		pr2[2][n1+3]='.';
		if(n1+9<=m)
		{
			pr2[1][n1+9]='#';
			pr2[2][n1+9]='.';
		}
	}
}
if(m%6==3)
{
	for(n2=1;n2<=n;n2++)
		if(n2%4!=3)
			pr2[n2][m]='#';
		else
			pr2[n2][m]='.';
	if(n%4==0&&m%12!=9)
	{
		pr2[n-1][m]='#';
		pr2[n-2][m]='.';
	}
}
```

```
        /*if(m%6==2&&n%2==0)
        {
                pr2[n][m]='#';
                pr2[n][m-1]='.';
                pr2[n][m-2]='#';
                pr2[1][m-4]='#';
                pr2[2][m-4]='.';
        }*/
/*      if(m%6==5&&n%2==1)
        {
                pr2[n][m]='#';
                pr2[n][m-1]='.';
                pr2[n][m-2]='#';
                pr2[1][m-1]='#';
                pr2[2][m-1]='.';
        }*/
        if(m%6==0)
        {
                for(n2=1;n2<=n;n2++)
                        if(n2%4!=2)
                                pr2[n2][m]='#';
                        else
                                pr2[n2][m]='.';
                if(n%4==3)
                {
                        pr2[n][m-1]='#';
                        pr2[n][m-2]='.';
                        pr2[n][m-3]='#';
                        pr2[1][m-2]='#';
```

```
                        pr2[2][m-2]='.';
                }
        }
        int k=0;
        for(n1=1;n1<=n;n1++)
                for(n2=1;n2<=m;n2++)
                {
                        if(pr1[n1][n2]=='#')
                                k++;
                        if(pr2[n1][n2]=='#')
                                k--;
                }
//      cout<<k<<endl;
        if(k>=0)
                for(n1=1;n1<=n;n1++)
                        printf("%s\n",pr1[n1]+1);
        else
                for(n1=1;n1<=n;n1++)
                        printf("%s\n",pr2[n1]+1);
    }
}
```