#include<iostream>

using namespace std;

int lock=0;

void step1(){

while(lock!=0);

}

void step2(){

lock=1;

}

void step3(int i){

cout<<"The process "<<i<<" is in critical section \n";

}

void step4(int i){

lock=0;

cout<<"The process "<<i<<" exited \n";

}

int main(){

int i;

int c1=0,c2=0;

cout<<"Enter the sequence of execution of steps for process p1 and p2 \n";

int c=8;

while(c--){

cout<<"Enter 1 for process 1 and 2 for process 2 by the order you want \1n";

cin>>i;

if(i==1){

if(c1==0){

step1();

c1++;

}

else if(c1==1){

step2();

c1++;

}

else if(c1==2){

step3(i);

c1++;

}

else{

step4(i);

c1=0;

}

}

else {

if(c2==0){

step1();

c2++;

}

else if(c2==1){

step2();

c2++;

}

else if(c2==2){

step3(i);

c2++;

}

else{

step4(i);

c2=0;

}

}

}

}

OutPut:-

