

## printPattern2

Write a program that reads an integer number (between 1 and 9) as its parameter, and prints a pattern with the specified number. No need to check errors on user input. For example, if the number is 9, the following pattern will be printed:

```
A
BA
ABA
BABA
ABABA
BABABA
ABABABA
BABABABA
ABABABABA
```

A sample program template is given below:

```
#include <stdio.h>
int main()
{
    /* Write your code here */
    return 0;
}
```

Sample input and output sessions are given below:

(1) Test Case 1:  
Enter the height:  
3  
The pattern is:  
A  
BA  
ABA

(2) Test Case 2:  
Enter the height:  
8  
The pattern is:  
A  
BA  
ABA  
BABA  
ABABA  
BABABA  
ABABABA  
BABABABA

```
#include <stdio.h>
int main()
{
    int i,j,height;

    printf("Enter the height:\n");
    scanf("%d",&height);
    printf("The pattern is:\n");

    for(i=1;i<=height;i++)
    {
        j=i;
        for(j=i;j>0;j--)
        {
            if(j%2==0)
            {
                printf("B");
            }
            else if(j%2==1)
            {
                printf("A");
            }
        }
        printf("\n");
    }
    return 0;
}
```