单词反转，采用栈，先进后出的特点：

```
package bilibili;

import java.util.Scanner;
import java.util.Stack;

public class Main {

	public static void main(String[] args) {

		Scanner scanner=new Scanner(System.in);
		String str="";
		while (scanner.hasNext()) {
			str=scanner.nextLine();
			String[] strings=str.split(" ");
			Stack< String> stack=new Stack<>();
			for (int i = 0; i < strings.length; i++) {
				stack.push(strings[i]);
			}
			while (!stack.isEmpty()) {
				System.out.print(stack.pop()+" ");
			}
		}
		scanner.close();

	}
}
```

背包问题，采用标记价值的索引号跟踪

```
package Maxbag;

import java.util.Arrays;

import java.util.Scanner;

public class Main {

	public static void main(String[] args) {

		Scanner scanner=new Scanner(System.in);
		int N,M,sum=0,i;
		while (scanner.hasNext()) {
			N=scanner.nextInt();
			M=scanner.nextInt();
			int [] w=new int[N];
```

```
            int [] v=new int[N];
            double [] p=new double[N];
            double [][] q=new double[N][N];
            for ( i = 0; i < N; i++) {
                w[i]=scanner.nextInt();
            }
            for ( i = 0; i < N; i++) {
                v[i]=scanner.nextInt();
            }
            for (i = 0; i < N; i++) {
                p[i]=v[i]/w[i];
                q[i][i]=p[i];


            }
            Arrays.sort(p);
            int num=N-1;
            for ( i = 0; i < N; i++) {
                if (q[i][i]==p[num]) {

                    M-=w[i];
                    if (M>0) {
                        sum+=v[i];
                    }
                    if (M<0) {
                        break;
                    }
                    num--;
                }
            }
            System.out.println(sum);
        }

        scanner.close();

    }
}
```