```java
            continue;
        }

        for (Map.Entry<String, String> entry : ST.entrySet()) {
            if (entry.getKey().equals(arrOfStr[j])) {
                    String s = String.valueOf(LC);
                    ST.put(arrOfStr[j], s);
                fw.write("( S ," + entry.getValue() + " )");
                flag = true;
                fw.write(" ");
                break;
            }
        }

        try{
            String val = IS.get(arrOfStr[j]);
            String val2 = DL.get(arrOfStr[j]);
            String val3 = AD.get(arrOfStr[j]);
            String val4 = REG.get(arrOfStr[j]);
            if(val!= null){
                fw.write("( " + "IS " + ", " + val + " )");
                flag = true;
                fw.write(" ");
            }else if (val2 != null){
                fw.write("( " + "DL " + ", " + val2 + " )");
                flag = true;
                fw.write(" ");
                if (arrOfStr[j].equals(ds)) {
                    ds_found = true;
                }
                if (arrOfStr[j].equals(dc)) {
                    dc_found = true;
                }
            }else if (val3 != null){
                fw.write("( " + "AD " + ", " + val3 + " )");
                flag = true;
                fw.write(" ");
                if (arrOfStr[j].equals(start)) {
                    st_found = true;
                }
            }else if (val4 != null){
                fw.write("( " + "RG " + ", " + val4 + " )");
                flag = true;
                fw.write(" ");
            }else if(!flag){
                String s = String.valueOf(++SC);
                ST.put(arrOfStr[j], s);
                if (j != 0) {
                    fw.write("( S ," + SC + " )");
```