```
start state, delta transitions [], alphabet [], accepting state, states[] are global


main (){
    find shortest super string
    find min in stored array and return it
}
Find shortest super string (current state, string w, current index, retval)
{
    if (current state == accepting state && current index == w.length)
    {
        store retval in some possible result array
    }
    else
    {
        for every character c in the alphabet for the delta transitions for current
state
        {
            if(C == w[current index])
                current index ++;
                retval += c
            else
                retval += c

            findshortestsuperstring(delta(current state, c), w, current index,
retval)
        }
    }
}
```