模版·Horspool算法(匹配字符串)

```java
public class Horspool{
    public static int horspool(String text,String pattern){
        if(pattern.length()>text.length()){
            return -1;
        }

        int[] table=new int[256];
        for(int i=0;i<256;i++){
            table[i]=pattern.length();
        }
        for(int i=0;i<pattern.length()-1;i++){
            table[pattern.charAt(i)]=pattern.length()-i-1;
        }

        int i=pattern.length()-1;
        int j=pattern.length()-1;
        while(i<text.length()){
            if(text.charAt(i)==pattern.charAt(j)){
                i--;
                j--;
                if(j==0){
                    return i+1;
                }
            }else{
                i=i+table[text.charAt(i)];
                j=pattern.length()-1;
            }
        }

        return -1;
    }

    public static void main(String[] args){
        String text="ABCEABCEABCEABC";
        String pattern="EAB";

        int index=horspool(text,pattern);
        if(index!=-1){
            System.out.println("模式\""+pattern+"\"在文本\""+text+"\"中首次出现的位置为："+index);
```

```java
        }else{
            System.out.println("模式\""+pattern+"\"在文本\""+text+"\"中不存在");
        }
    }
}
```