1. B 2. B 3. C 4. A 5. B 6. B 7. B 8. C 9. B 10. B 11. B 12. B 13. D 14 C B 15. C

应用题

(1)

```
#include<iostream>
#include<vector>
using namespace std;
const int N = 1e6 + 10;
int ne[N] ,neval[N];
vector<int> v ;
int main(){
    string str = " abcaabbabcab" ;
    v.push_back(0);
    // 1 2 3 4 5 6 7 8 9 0 1 2
    // a b c a a b b a b c a b
    // 0 1 1 1 2 2 3 1 2 3 4 5
    // 0 1 1 0 2 1 3 0 1 1 0 5
    int len = str.size() - 1;
    // 求next[]数组,v来存放next[]数组
    for(int i = 2, j = 0; i \le len; i++)
        while(j && str[i] != str[j+1]) j = ne[j];
        if(str[i] == str[j+1]) j++;
        ne[i] = j;
    v.push_back(ne[0]) ;
    for(int i = 1 ; i < len ; i ++){
        ne[i] ++ ;
        v.push_back(ne[i]);
    cout << "next数组: ";
    for(int i = 1; i \le len; i \leftrightarrow \}
        cout << v[i] << " " ;</pre>
    cout << endl ;</pre>
    // 求nextval[]数组
    for(int i = 1; i \le len; i \leftrightarrow len)
        if(str[i] == str[v[i]]) neval[i] = neval[v[i]] ;
        else neval[i] = v[i];
    }
    cout << "nextval数组: ";
    for(int i = 1; i \le len; i ++){
        cout << neval[i] << " " ;</pre>
    return 0;
}
```

编程题

```
#include<iostream>
using namespace std ;
const int N = 1e6 + 10;
int a[N] ;
int main(){
   int n ;
   cin >> n ;
   for(int i = 0; i < n; i ++) cin >> a[i];
   int i = 0, j = n - 1;
   while(j - i != 1){
       if(a[i] > 0 \& a[j] < 0){
           swap(a[i],a[j]) ;
           i ++ ;
       }
       else if(a[i] > 0 \& a[j] > 0) j -- ;
       else if(a[i] < 0 & a[j] < 0) i ++ ;
       else j -- ,i ++ ;
   for(int i = 0; i < n; i ++) cout << a[i] << " ";
   return 0;
}
```