

```
/*  
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ACSL - Contest 2  
Junior Division  
*/
```

```
#include <iostream>  
#include <cstring>
```

```
using namespace std;
```

```
char a[80], b[80], d[80], e[]="AEIOU", c[80];
```

```
int main()
```

```
{
```

```
    int i, j;
```

```
    for(int pr = 1; pr <= 5; pr++)
```

```
    {
```

```
        cin >> a >> b;
```

```
        cin.get();
```

```
        for(i = 0; i < strlen(a) - 1; i++)
```

```
        {
```

```
            if(a[i] == a[i + 1])
```

```
            {
```

```
                strcpy(d, a + i + 2);
```

```
                strcpy(a + i + 1, d);
```

```
            }
```

```
        }
```

```
        for(i = 1; i < strlen(a); i++)
```

```
        {
```

```
            while(strchr(e, a[i]) != 0 && i < strlen(a))
```

```
            {
```

```
                strcpy(d, a + i + 1);
```

```
                strcpy(a + i, d);
```

```
            }
```

```
        }
```

```
        for(i = 0; i < strlen(b) - 1; i++){
```

```
            if(b[i] == b[i + 1])
```

```
            {
```

```
                strcpy(d, b + i + 2);
```

```
                strcpy(b + i + 1, d);
```

```
            }
```

```
        }
```

```
        for(i = 1; i < strlen(b); i++)
```

```
        {
```

```
            while(strchr(e, b[i]) != 0 && i < strlen(b))
```

```
            {
```

```
    strcpy(d, b + i + 1);
    strcpy(b + i, d);
}
}
```

```
if(strlen(a) < strlen(b))
{
    strcpy(d, a);
    strcpy(a, b);
    strcpy(b, d);
}
```

```
for(i = 0; i < strlen(b); i++)
{
    while(a[i] == b[i] && i < strlen(b))
    {
        strcpy(d, a + i + 1);
        strcpy(a + i, d);
        strcpy(d, b + i + 1);
        strcpy(b + i, d);
    }
}
```

```
for(j = 0; j < strlen(a) - strlen(b); j++)
{
    strcat(c, "1");
}
```

```
j = strlen(a) - strlen(b) - 1;
strcpy(d, c);
strcpy(d + j + 1, b);
strcpy(b, d);
```

```
for(i = 0; i < strlen(a); i++)
{
    while(a[i] == b[i] && i < strlen(a))
    {
        strcpy(d, a + i + 1);
        strcpy(a + i, d);
        strcpy(d, b + i + 1);
        strcpy(b + i, d);
    }
}
```

```
strcpy(d, b + j + 1);
strcpy(b, d);
```

```
if(strlen(a) == strlen(b))
{
    if(strcmp(a, b) > 0)
    {
        cout << b << '\n';
    }else
    {
```

```
        cout << a << '\n';
    }
}
else
{
    cout << b << '\n';
}
}

return 0;
}
```