

Pseudo code:

```
get the start number;
while(get players number until negative)
{
    push into player into list;
}

while(list still have more then one player)
{
    get the word;
    while(each time get a alphabet)
    {
        player save the alphabet he say;
        if (clockwise)
            next clockwise player;
        else
            previous player;
    }

    the player who say the last alphabet out the game;
    print all the alphabet he say before;

    if (the alphabet is vowel)
        continue clockwise;
    else
        change the direction;
}

print all the alphabet of the winner;
```

time complexity:

$$n + n(2n+2) = n + 2n^2 + 2n = 2n^2 + 3n$$
$$= O(n^2)$$