

algorithm for containsPairSum()

```
for each card  $i = 0 \rightarrow n-1$  if n points to last element  
| value1 = value of card  $i$  last card  
| for each card  $j = i+1 \rightarrow n$   
| | value2 = value of card  $j$   
| | if (value1 + value2 == 11)  
| | | return true  
| |  
| |  
| |
```

return false



algorithm for containsJQK:

boolean $j = \text{false}$, $q = \text{false}$, $k = \text{false}$;

for all cards $i = 0 \rightarrow n$

| if card i is jack

| | $j = \text{true}$

| else if card i is queen

| | $q = \text{true}$

| else if card i is king

| | $k = \text{true}$

return $j \&\& q \&\& k$

How to get Card info?

list has integers.

```
int k = selectedCards.get(0);
```

k is an index into set of cards
on the board
to get Card:

```
Card c = cardAt(k);
```

to get value:

```
int val = c.pointValue();
```

to see if jack:

```
c.rank().equals("jack")
```