

Komponen Penilaian	Ya	Tidak
Soal 1 sesuai dengan output yang diinginkan		
Soal 2 sesuai dengan output yang diinginkan		
Bonus soal 1 dikerjakan		

Source Code :

```
#include <stdio.h>

int nilai_kartu(char cards) {
    if (cards == 'J')
        return 11;
    else if (cards == 'Q')
        return 12;
    else if (cards == 'K')
        return 13;
    else if (cards == '1')
        return 10;
    else
        return cards - '0';
}

void pertukaran(char *cards, int n) {
    for (int i = 0; i < n; i++) {
        printf("%c ", cards[i]);
    }
    printf("\n");
}
```

```

int swapping(int n, char *cards) {
    int swaps = 0;
    for (int i = 0; i < n - 1; i++) {
        int min_idx = i;
        for (int j = i + 1; j < n; j++) {
            if (nilai_kartu(cards[j]) < nilai_kartu(cards[min_idx])) {
                min_idx = j;
            }
        }
        if (min_idx != i) {
            char temp = cards[i];
            cards[i] = cards[min_idx];
            cards[min_idx] = temp;
            swaps++;

            printf("Pertukaran %d : ", swaps);
            pertukaran(cards, n);
        }
    }
    return swaps;
}

int main() {
    int n;
    scanf("%d", &n);

    char cards[n];
    for (int i = 0; i < n; i++) {
        scanf(" %c", &cards[i]);
    }

    int swaps = swapping(n, cards);
    printf("%d\n", swaps);

    return 0;
}

```

```

4
6 6 9 7
Pertukaran 1 : 6 6 7 9
1
5
3 2 8 7 4
Pertukaran 1 : 2 3 8 7 4
Pertukaran 2 : 2 3 4 7 8
2

```

```

6
10 J K Q 3 2
Pertukaran 1 : 0 1 J K Q 3
Pertukaran 2 : 0 3 J K Q 1
Pertukaran 3 : 0 3 1 K Q J
Pertukaran 4 : 0 3 1 J Q K
4
8
9 4 2 J K 8 4 Q
Pertukaran 1 : 2 4 9 J K 8 4 Q
Pertukaran 2 : 2 4 4 J K 8 9 Q
Pertukaran 3 : 2 4 4 8 K J 9 Q
Pertukaran 4 : 2 4 4 8 9 J K Q
Pertukaran 5 : 2 4 4 8 9 J Q K
5

```