Dry-Run

selection sort:

```
int main() {
    int arr[] = {64, 34, 25, 12, 22, 11};
```

64	34	25	12	22	11

```
    int n = sizeof(arr) / sizeof(arr[0]);
```

24/4 → n=6

// selection sort function:

```
void selectionSort(int arr[], int n) {
```

64, 34, 25, 12, 22, 11 (arr) ; 6 (n)

```
    for(int i=0; i<n-1; i++) {
        int min = i;
        for(j=i+1; j<n; j++) {
            if (arr[j] < arr[min]) {
                min = j;
            }
        }
    }
```

DATE: DAY:

```
if (min != i) {
    swap (arr[i], arr[min]);
}
```

i = 0

min

| 64 | 34 | 25 | 12 | 22 | 11 |

j = i+1 → 34 < 64

min = 34

min

| 64 | 34 | 25 | 12 | 22 | 11 |

j = i+1 → 25 < 34

min = 25

in this way we find the minimum element from the array. and then swap from i=0 index.

| 11 | 34 | 25 | 12 | 22 | 64 |

i = 1 | 11 | 12 | 25 | 34 | 22 | 64 |

i = 2 | 11 | 12 | 22 | 34 | 25 | 64 |

i = 3 | 11 | 12 | 22 | 25 | 34 | 64 |

i = 4 | 11 | 12 | 22 | 25 | 34 | 64 |

i = 5 | 11 | 12 | 22 | 25 | 34 | 64 |

At last we get sorted list.