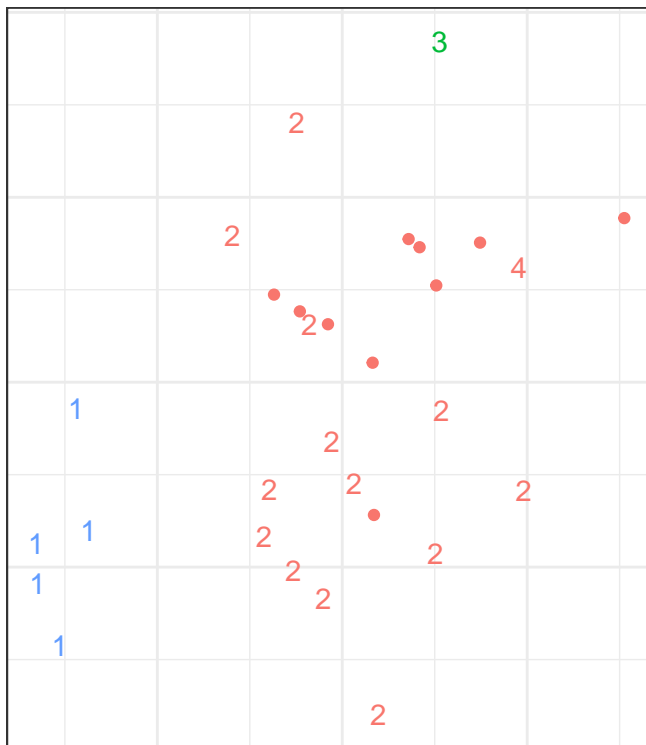(a) S_t