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# Chapter 1

# 1X

#### 1.1 1C

```
1C -
1D*: 4+H
1H*: 4+S
1S*: inv+, 4+D; or 5+D
  - 1N : min, 2-D or 4333 or some 4332
   - 2C : min unbal
  - 2D : 3+D
1N : 6-10
2C*: GF, 4+C # inv if PH
  - 2D*: 12-14
     - 2H*: nat or ask
  - 2M : 15+, nat, usually 3+M
  - 2N : 18-19
  -3C:15-17,6+C
  - 3X*: spl
2D*: inv, 4+C # constr if PH
  - 2M : 15+, nat, usually 3+M
  - 2N : nat min
  - 3C : nat min
  - 3X*: spl
  -3N:13-14, nat
2M : 3-7, 6+M # not interested in 18-19 bal, 2-M
  - 2N*: feature ask, inv+
2N^*: 7-9, 5+C # weaker if PH
3C^*: 0-6, 5+C # weaker if PH
3X : 7+X, about 6-6.5 tricks
```

## 1.1.1 Gazzilli after 1D\*/1H\*

```
1C - 1D*;

1H*: 4+S  # highest priority unless 4+ fit

1S*: 16+; or (13)14-15, 6+C, GT  # may be 16-17, 2425 [3H]

- 1N*: 8+

- 2C*: 6+C, GT

- P : s/o

- 2N : re-inv

- 3C : re-inv

- 2D*: GF, catchall

- 2H : 6+C, GT; and 3H  # same as above but 3H

- 2S*: 3H, GF

- 3H : 4H, 16-17

- 2C : min

- 2D : min

- 2H : min
```

```
# bids below applies to 2X above
        -2H:3-4H,16-17(18)
        - 2S*: 3H, GF
        - 3C : GF
        - 3H : ?
   - 2S^*: min, 5+S # implies 6+H
   - 2N+: C fit ST
   - 3H : solid H ST
1N : min bal
  - 2wPCB
2C : min unbal
   - 2D*: GF
  - 2H : NF
   -2S^*: GF, (3)4+C
  - 2N : inv
  - 3C : inv
  - 3D*: spl
  - 3H : inv, 6+H
  - 3S*: spl
2D*: 14-16, 6+C, 4+D
2H : min, 4+H
2S^*: inv+, 4+H, spl S
2N : 18-19, bal
3C: (15)16-17, 6+C, GT
3D^*: inv+, 4+H, spl D
3H^*: 18-19 \text{ bal}, 4+H
3S^*: 20-22, 4+H, some spl
  - 3N^*: ask
3N^*: GF, 4+H, S void
4C*: GF, 4+H, 6+C
4D^*: GF, 4+H, D void
4H*: 4+H, 20-21 bal # or good 18-19 bal
1C - 1H^*;
1S^*: 16+; or (13)14-15, 6+C, GT # may be 16-17, 4225 [3S]
   - 1N*: 8+
        - 2C*: 6+C, GT
             -P:s/o
             -2N:re-inv
             - 3C : re-inv
        - 2D*: GF, catchall
        - 2H : 6+C, GT; and 3H # same as above but 3H
        - 2S*: 3H, GF
        - 3H : 4H, 16-17
   - 2C : min
   - 2D : min
   - 2H : min
   - 2S : min
```

```
# bids below applies to 2X above
        - 2H*: 3S, GF
        -2S:3-4S,16-17(18)
        - 3C : GF
        - 3S : ?
   - 2N+: C fit ST
   - 3S : solid S ST
1N : min bal
2C : min unbal
  - 2D*: GF
   - 2M : NF
   - 2N : inv
  - 3C : inv
   - 3D*: spl
  - 3H*: spl
  - 3S : inv, 6+S
2D*: 14-16, 6+C, 4+D
2H*: 14-16, 6+C, 4+H
2S^*: min, 4+S
2N : 18-19, bal
3C: (15)16-17, 6+C, GT
3D^*: inv+, 4+S, spl D
3H^*: inv+, 4+S, spl H
3S^*: 4+S, 18-19 bal
3N^*: 20-22, 4+S, some spl
 - 4C*: ask
4C*: GF, 4+S, 6+C
4D^*: GF, 4+S, D void
4H*: GF, 4+S, H void
4S*: 4+S, 20-21 bal # or good 18-19 bal
```

#### 1.1.2 XYZW

```
1C - 1D*; 1H*- 1S*: see utils/XYZW/PLOB
1C - 1DH; 1N - ...: see utils/XYZW/2wPCB
1C - 1S ; 1N - ...: no 2-way
```

#### 1.2 1D

```
1D - # 11-21, 4+D unbal; 12-14/18-19, 4+D bal
1M : 6+, 4+M
1N : 6-10, nat
2C : inv, 6+C [3C]; or GF, 5+C
   - 2D*: 12-14 # may be 12-14 with good C support; ready to play 3N
        - 2H*: GF, ask
             - 2S*: 5D unbal
             -2N: min bal
             - 3C : 3+C unbal
             - 3D : 6+D unbal
             - 3N : max bal
        - 2S+: nat GF
       - 3C : nat inv
   - 2M*: 15+ unbal, may be stopper
   -2N:18-19 bal
   - 3C : GF, 14+, 4+C
   - 3D : solid D ST
   - 3M^*: GF, 4+C, spl
2D*: some 6+M pre # not interested in 18-19 bal, 2-M
  # resp. similar to 2D/V (multi) except 3D
   -P:s/o
   - 2H*: P/C
   - 2S^*: P/C, may be interested in H
   -2N^*: ask #
        - 3C*: min
             - 3D^*: ask
             - 3H*: P/C
        - 3D^*: max, H
       - 3H*: max, S
   - 3C : nat, NF
   - 3D : nat, inv # then 3M = max and show suit
2H*: GF, 4+D # inv if PH
  - 2S*: 15+, catchall # GF if partner inv
   -2N:12-14 bal
   - 3C : nat
  - 3D : min unbal
   - 3M*: spl
  -3N:18-19 bal
2S*: inv, usually 4+D, not prefer to declare # constr if PH
  - 2N : nat min
  - 3C : nat, F1
   - 3D : nat min
   - 3M*: nat, could be stopper
   - 3N : nat
2N : nat inv
```

```
3C*: 8-10, 4+D # weaker if PH
3D*: (0)3-7, 4+D # weaker if PH
3M : 7+M, about 6-6.5 tricks, NF
```

### 1.2.1 XYZW

```
1D - 1H; 1S - 2C*: see utils/XYZW/PLOB
1D - 1M; 1N - ...: see utils/XYZW/2wPCB
```

#### 1.3 1H

```
1H - # 12-21, 5+H
1S*: F1; 4-6, 3+H [2H]; inv, 3H [3H/4H]; constr. 5+H [4H]; 5-11, 2-H;
  12-14, 4-S bal [3N]
1N*: 5+S, F1
2C : GF, nat
2D: GF, nat
2H : 7-9, 3+S
2S*: 12+, 4+H
2N^*: 8-9/12-13, 4+H, C/S spl
  - 3C*: ask
        - 3D*: C spl
        -3H^*: S spl, 8-9
        - 3S+: S spl, 12-13, cue-bid
3C*: 10-11, 4+H bal; 10-11, 4+H spl # the latter is GF
   - 3D^*: ask, ST
        -3H^*: 10-11, 4+S bal
        - 3S+: spl # 3N* replaces the highest spl, i.e. D
   - 3H : light opening; or min, 5H(332)
3D^*: 8-9/12-13, D spl
3H : pre
3S^*: 10-12, S void
3N^*: 12-14, 3H, bal w/o 6m, CoG
4X^*: 10-12, X void
4H : pre
```

### 1.3.1 Gazzilli after 1S\*/1N\*

```
1H - 1S*: F1

1N*: 16+, any; or 12-15, 6+H

2m: 12-15, nat

2H*: 12-15, 4+S

2S*: 14-16, 6+H, 4+S

2N*: 14-16, 6+H, 4+m

- 3C*: ask

- 3D: 4+D

- 3H*: 4+C

3m: 14-16, 5+m, NF

3H: 15-17, (s-)solid 6+H

3S: inv, 5+S, NF

3N*: GF, solid 7+H
```

```
1H - 1N*: 5+S

2C*: 16+, any; or 12-15, 6+H

2D : 12-15, nat
```

```
2H*: 12-15, 4+C
2S: 12-15, 3+S
2N*: 14-16, 6+H, 4+X
- 3C*: ask
- 3D: 4+D
- 3H*: 4+C
- 3S: 4+S
3m: 14-16, 5+m, NF
3H: 15-17, (s-)solid 6+H
3S: inv, 6+H, 3+S
3N*: GF, solid 7+H
```

```
1H - 1S^*/1N^*; 1N^*/2C^*: 16+, any; or 12-15, 6+H
+1*: 8+, any
  - 2H : 12-15, 6+H
2X : 4-7, nat
# after a weak nat response
   - 2S*: ... (TBD)
   - 2N^*: GF, some 6+H
        - 3C*: ask
             -3X : 4+X
             - 3H*: 4+C
             - 3N : no 4-card suit
  - 3X : GF, 5+X # except raise = inv
  - 3H : inv, 6+H
2N+: 5-7, nat # 2N usually mms
3H : inv, 3H
4H : nat
```

```
1H - 1S^*; 1N^* - 2C^*;
2D^*: some (18)19+
  - 2H*: waiting
      - 2S+: same as below
   - 3m : nat good 6+m, ST
2S: 16-18, 4+S
2N^*: some 5+m # 65 usually bids 3m then 4m
   - 3C*: ask
      - 3D : 16-18, 5+D
      - 3H*: 16-18, 5+C
3m : 16-18, 4+m
  - 3H : 2H
3H : 16-18, 6H(331/322) \text{ or } 7+H
3S : 16-18, 7+H, spl S
3N : 16-17 \text{ bal}
4m : 16-18, 7+H, spl m
4H : 16-18, 7+H
```

```
1H - 1N^*; 2C^* - 2D^*;
2S^*: some (18)19+
   - 2N*: waiting
      - 3C+: same as below
2N^*: some 5+m # 65 usually bids 3m then 4m
   - 3C*: ask
      - 3D*: 16-18, 5+D
      -3H^*: 16-18, 5+C
      - 3S*: 19-21, 5+C
      -3N^*: 19-21, 5+D
3m : 4+m
  - 3H : 2H
3H : 16-18, 6H(331/322) or 7+H
3S: 16-18, 3+S
3N : 16-17 \text{ bal}
4m : 16-18, 7+H, spl m
4H : 16-18, 7+H
# 4S ?
```

### 1.3.2 1H - $2S^*$ (same as $1S - 2N^*$ )

### 1.3.3 1H - (X)

```
1H - (X);
P : weak or some unbal inv # then bid/X = inv
XX : 10+, s-bal, usually not concentrated # forcing pass on
1S : 5+S, F1 # system on, may be psyche but rare
1N*: 5+C, 6-10; or 4+C, GF
2C*: 5+D, 6-10; or 4+D, GF
2D*: 3+H, 4-6 or 10+
2H : 3+H, 7-9
2S+: system on
```

### 1.3.4 PH response

```
P - 1H; # 12-21, 5+H

1S : 4+S

- 1N : min nat

- 2X : nat s/o

- 2N : inv

- 3X : nat inv

- 2C*: 16+, any; or 12-15, 6+H

- 2D*: 8+

- 2D : 12-15, nat

- 2H*: 12-15, nat C
```

```
1N*: NF; 4-5, 3H [2H]; 5-11, 2-S # 4-5, 4H just simply 2H or 3H
   -2C^*: 16+, any; or 12-15, 6+H
        - 2D*: 8+
   -2D:12-15, nat
   - 2H*: 12-15, nat C
2C*: inv+, 3+H # Drury
  - 2D*: 13-14 bal
   - 2H : light opening or 12- bal
  - 2S+: same as after 1H - 2H
2D : inv+, nat
2H : 6-9, 3+H
2S : 4-7, 6+S
2N^*: 8-10, 4+H, some spl
3m^*: 8-10, (54+) H and m
3H : pre
3S^*: 10-12, S void spl
3N^*: 12-14, 3H, bal w/o 6m, CoG
4X^*: 10-12, X void spl
4H : pre
P - 1H - 1S ; 2C^* - 2D^*;
2S^*: some (18)19+
   - 2N*: waiting
      - 3C+: same as below
2N^*: some 5+m # 65 usually bids 3m then 4m
   - 3C*: ask
      - 3D*: 16-18, 5+D
      -3H*:16-18,5+C
      -3S^*:19-21,5+C
      -3N^*: 19-21, 5+D
3m : 4+m
  - 3H : 2H
3H : 16-18, 6H(331/322) or 7+H
3S: 16-18, 4+S
3N : 16-17 \text{ bal}
4m : 16-18, 7+H, spl m
4H : 16-18, 7+H
# 4S ?
P - 1H - 1N ; 2C^* - 2D^*;
2S^*: some (18)19+
   - 2N*: waiting
      - 3C+: same as below
2N^*: some 5+m # 65 usually bids 3m then 4m
   - 3C*: ask
      - 3D*: 16-18, 5+D
      -3H^*: 16-18, 5+C
      -3S^*:19-21,5+C
```

- 3N\*: 19-21, 5+D

3m: 4+m
- 3H: 2H

3H: 16-18, 6H(331/322) or 7+H

3S: 16-18, 5+S

3N: 16-17 bal

4m: 16-18, 7+H, spl m

4H: 16-18, 7+H

#### 1.4 1N

### temporarily use BTUBWS

```
1N -
2C*: ask 4M
2D^* \rightarrow 2H^*: 5+H
2H^* \rightarrow 2S^*: 5+S
2S^*: ask 4m. s/o in 3m; or 44+m ST or CoG
2N : inv
3m : nat 6+m inv, NF
3H^*: 55+Ms, inv, NF
3S*: 55+Ms, ST
3N : s/o
4C*: ask #A
4\,\mbox{D}^{\,*} \rightarrow 4\,\mbox{H}^{\,*}: \mbox{6+H} # FP not on
       - 4S+: (E)RKC
4H^* \rightarrow 4S^*: 6+S # FP not on
       - 4N+: (E)RKC
4S*: (stronger) Quant
4N : (weaker) Quant
5m : s/o
```

### 1.4.1 after Stayman

```
1N - 2C*; # ask 4M
2D^*: no 4M
  - 2H*: 5+S, inv # may don't have 4H
      - 2S : s/o
      -2N:s/o
          -3m:5+m, s/o #?
   - 2S^*: 45xx, inv, NF
   - 3M*: 5+oM, GF
   - 4C*: ask #A
   - 4D* \rightarrow 4H*: 46xx+
   - 4H^* \rightarrow 4S^*: 64xx+
2H : 4M
   - 2S : 5+S, inv, NF
      -2N : s/o
          -3m:5+m,s/o
   - 3H : inv
   - 3S*: 4+H, ST
   - 4C+: spl
2S : 4S
   -3H^*: 4+S, ST
   - 3S : inv
```

```
- 4C+: spl

# below applies to all above

- P*: weak and escaping 1N

- 2N: inv, should have 4oM

- 3m: ST, 5+m

- 3N: s/o, should have 4oM

- 4N: Quant
```

#### 1.4.2 after Jacoby transfer

```
1N - 2D/H^*; # 5+H
2H/S*: tr. acc
     -P:s/o
     - 2S*: inv # [TODO] or spl S?
          -2N:s/o
              -3m:5+m,s/o
     - 2N*: CoG, usually unbal # no slam interest
          - ... 3X : nat, good stopper or suit
     -3m:4+m,ST
     -3M:6+M,inv
     - 3oM: 6+M, ST
     -3N : s/o
     - 4m : 6+M, spl m # [TODO] actually, BTUBWS plays this as 5+m, ST
     - 4M : mild ST
     - 4N : Quant
# 1N - 2H^*; 2S^* - 4H : 55 + Ms, CoG
# super acc. after 1N - 2D^*
2S^*: max, 4+H, xx in S
2N^*: max, 4+H, otherwise
3C^*: max, 4+H, xx in C
  - 3D^* \rightarrow 3H^*: re-transfer # applies to 2S, 2N, 3C
3D^*: max, 5H
3H^*: max, 4+H, xx in D
# super acc. after 1N - 2H^*
2N^*: max, 4+S, otherwise
3m^*: max, 4+S, xx in m
  - 3H^* \rightarrow 3S^*: re-transfer # applies to 2S, 2N, 3C
3H^*: max, 5S
3S^*: max, 4+S, xx in H
```

### 1.4.3 after minor Stayman

```
1N - 2S*;
2N*: no 4m
- 3m : s/o
```

```
3m*: 4+om # 3C could contain 4+C
# bids below applies to all above
   - 3M : spl M, may be CoG
   - 4om+1: RKC
   - 3om: s/o # m = C
   - 4om: s/o # m = D
```

#### 1.4.4 comp

#### 1.4.5 vs CAPP

```
1N - (2C^*) # some 6+X
P^* : X shows t/o afterwards
X : inv+, near bal, FP on
2D*: Stayman
2M : s/o
   -3M:s/o
2N^* \rightarrow 3C^*: s/o in 3m
3C^*: 5+D, inv+
3D^*: 5+H, inv+
3H^*: 5+S, inv+
3S*: 5+C, GF
3N : s/o
1N - (2D^*) \# MMs
{\tt X} : can pen at least one {\tt M}
P : may be bal, inv+ (then X)
2H^*: 5+C, inv+
2S^*: 5+D, inv+
2N : nat inv
3m : s/o
1N - (2M)
X : pen
```

### 1.4.6 vs DONT

#### 1.4.7 vs meckwell DONT

```
1N -(X*) # 6+m or 54M
XX : inv+, near bal, FP on
2N* -> 3C*: s/o in m
other: system on

1N -(2m) # m + higher
# treated as nat overcall
X* : t/o
2X : nat

1N -(2M) # m + higher
X : pen
```

#### 1.5 1S

```
1S - # 12-21, 5+S
1N*: F1; 4-6, 3+S [2S]; inv, 3S [3S/4S]; constr. 5+S [4S]; 5-11, 2-S;
  12-14, 2-S bal [3N]
2C : GF, nat
2D : GF, nat
2H : GF, nat
2S : 7-9, 3+S
2N^*: 12+, 4+S
3C^*: 8-9/12-13, C/D spl
  - 3D*: ask
        - 3H*: C spl
        -3S^*: D spl, 8-9
        - 3N+: D spl, 12-13, cue-bid
3D*: 10-11, 4+S bal; 10-11, 4+S spl # the latter is GF
  - 3H*: ask, ST
        -3S^*: 10-11, 4+S bal
        - 3N+: spl # 3N* replaces the highest spl, i.e. H
  - 3S : light opening; or min, 5(332)
3H^*: 8-9/12-13, H spl
3S : pre
3N^*: 12-14, 3S, bal w/o 6m, CoG
4X^*: 10-12, X void
4S : pre
```

#### 1.5.1 Gazzilli after 1N\*

```
1S - 1N*; 2C*: 16+, any; or 12-15, 6+S

2D*: 8+, any
- 2S: 12-15, 6+S
- other: nat and GF

2H: 5-7, 5+H
```

```
2S : 4-7
# bids below applies to both 2H and 2S
   - 2N*: GF, some 6+S
        - 3C*: ask
        - 3X : 4+X
        - 3S*: 4+C
        - 3N : no 4-card suit
   - 3X : GF, 5+X # except raise = inv
   - 3S : inv, 6+S
2N+: 5-7, nat # 2N usually mms, 3H probably 7+H
3N : 12-14, bal
3S : inv, 3S
4S : nat
```

```
1S - 1N*; 2C*- 2D*;
2H^*: some (18)19+
  - 2S*: waiting
         - 2N+: same as below
   - 3X : nat good 6+X, ST
2S: 12-15, 6+S
2N : 16-18, some 5+X
   - 3C*: ask
     - 3D : 5+D
      - 3H : 5+H
      - 3S*: 5+C
3X : 16-18, 4+X
  - 3S : 2+S
3S: 16-18, 6S(331) or (322) or 7+S
3N : 16-17, bal
  - 4m : 6+m, ST
```

#### 1.5.2 1S - 2N\*

```
1S - 2N*: 12+, 4+S
3X : X short # then 3N = FF
3S : 14+, w/o shortness # then 3N = FF
3N*: FF, 12-13, w/o shortness
(TBD) after 3S/3N, choose from spl or cue-bid
# 4X usually with controls in two other suits, otherwise bid 3X instead
4m : 5+m
    - +1*: ask
    - 4S : min
4H : 5+H, extra
4S*: 5+H, min
```

# $1.5.3 ext{ 1S - } (X)$

```
1S - (X);
P : weak or some unbal inv # then bid/X = inv

XX : 10+, s-bal, usually not concentrated # forcing pass on

1N*: 5+C, 6-10; or 4+C, GF

2C*: 5+D, 6-10; or 4+D, GF

2D*: 5+H, 6-10; or 4+H, GF

2H*: 3+S, 4-6 or 10+

2S : 3+S, 7-9

2N+: system on
```

#### 1.5.4 PH response

```
P - 1S - # 12-21, 5+S
1N*: NF; 4-6, 3+S [2S]; 5-11, 2-S
   - 2C^*: 16+, any; or 12-15, 6+H
        - 2D*: 8+
   - 2D : 12-15, nat
   - 2H : 12-15, 4+H
   - 2S*: 12-15, nat C
2C*: inv+, 3+S # Drury
  - 2D*: min bal
   - 2H : nat
  - 2S : light opening
   - 2N+: same as after 1H - 2H
2D : inv+, nat
2H : inv+, 5+H
2S : 7-9, 3+S
2N^*: 8-10, 4+S, some spl
3X^*: 8-10, (54+) S and X
3S : pre
3N^*: 12-14, 3H, bal w/o 6m, CoG
4X*: 10-12, X void spl
4H : pre
```

### 1.6 2C

```
2C*-
2D*: waiting
  - 2H^* \rightarrow 2S^* - 2N : 20-21 bal
            - 3X : 22+, nat, 5+H
             -3N:22-24,5H(332)
        -2N^*: 4-7, 5+S
   -2S:22+,5+S
        - 3C*: cheaper minor, 0-3
   - 2N : 22-24 # 4-th seat: 24-25
   - 3C : nat, 5+C
        - 3D^*: cheaper minor, 0-3
   -3D: GF, 5+D
   - 3M : nat solid ST
   - 3N : 25-27 # 4-th seat: 26-27
   - 4m : nat solid ST
   - 4M : 8.5 + tricks
   - 5m : 8.5+ tricks
2M : 8+, 5+M
2N : 8-10
3m : 8+, (5)6+m
3M : 4-7, 6+M
3N : 11-12
4m : 8+, solid (6)7+m, ST
4M : 4-7, 7+M
```

#### 1.6.1 puppet Stayman

```
2N -
3C^*: ask 5M # could be s/o 3N
 - 3D^*: some 4+M
        - 3M*: 4+oM
        -3N:s/o
3D^* \rightarrow 3H^*: 5+H
        - 3S : 4+S
   - 3S*: 3433
   - 3N+: 4H, cue # 3N = S
   - 4H : 3H
3H^* \rightarrow 3S^*: 5+S
  - 3N*: 4333
   - 4C+: 4S, cue
  - 4S : 3S
3S^*: 44+m, ST
  -4m:4+m
3N^*: 54xx+
```

 $4C^*: Gerber \\ 4D^* \rightarrow 4H^*: 6+H, MST \\ 4H^* \rightarrow 4S^*: 6+S, MST \\ 4S^*: good Quant \\ 4N^*: bad Quant$ 

Chapter 2
pre

# 2.1 2D/NV (multi)

```
2D - # 3-9, 6+M
P : s/o
2M/3M/4H*: P/C
4S : s/o
2N*: F1
   - 3C*: min
      - 3H*: P/C
  - 3D^*: H, mid
   - 3H*: S, mid
   - 3S^*: H, max
   - 3N^*: S, max
3C : s/o
3D^*: some 5+M, GF
   - 3H : 6+H
       - 3S : 6+S
        - 3N : 5S
   -3S:6(2-)xx
   -3N*:6322
   - 4C*: 63xx+, spl D
   - 4D^*: 63xx+, spl C max
   - 4H*: 63xx+, spl C min
3N : s/o
4\,\mbox{C}^*\colon fit in both majors, slam interest, ask
  - 4D*: H
   - 4H*: S
4D*: s/o 4M, not allowing re-raise
```

# 2.2 2H/NV (Ekren)

```
2H*- # 3-8, 4+MMs

2S : s/o

2N*: ask
- 3C*: min
- 3D*: ask, GF
- 3M*: 5+oM
- 3N : 44Ms
- 4m*: 55Ms, spl m

- 3D*: mid+, 55Ms
- 3M : s/o
- 3M*: max, 5+oM
- 3N*: max, 44Ms

3C*: 4+H, inv+
- 3D*: re-inv
```

```
- 3H*: min
- 3S*: shape-FF, 4H but max
- 3N+: 5H, super max, cuebid
- 4H: 5H, max, not super max

3D*: 4+S, inv+
- 3H*: re-inv
- 3S*: min
- 3N*: shape-FF, 4S but max
- 4C+: 5S, super max, cuebid
- 4S: 5S, max, not super max

3M: s/o
3N: s/o
4C*: ask, ST
4D*: pick a 4M, not allowing re-raise
4M: s/o
```

# 2.3 2S/NV (wild)

```
2S - 2N^* \rightarrow 3C^* - P : s/o
- 3D : s/o
- 3H : 5+H, GF
- 3S : inv
- 3N : no fit, slam interest
3X : nat inv NF
3S : s/o
3N : s/o
4C^* : ORKC
4D^* \rightarrow 4S : re-raise not allowed
4M : s/o
```

# 2.4 2D/V (multi)

```
2D - # 3-7, 6+M
P : s/o
2M/3M/4H*: P/C
4S : s/o
2N*: F1
   - 3C*: min
     - 3H*: P/C
  - 3D*: H, mid
  - 3H*: S, mid
  - 3S^*: H, max
  - 3N^*: S, max
3C : s/o
3D^*: some 5+M, GF
  - 3H : 6+H
       - 3S : 6+S
      - 3N : 5S
  -3S:6(2-)xx
  - 3N*: 6322
  - 4C*: 63xx+, spl D
   - 4D^*: 63xx+, spl C max
  - 4H*: 63xx+, spl C min
3N : s/o
4C^*: fit in both majors, slam interest, ask
  - 4D*: H
   - 4H*: S
4D*: s/o 4M, not allowing re-raise
```

# 2.5 2M/V (nat)

```
2M - # 8-11, 6+M
2S : nat F
2N*: ask feature
    - 3X : cue
3M : s/o
3N : s/o
4C*: ORKC
4D*: s/o 4M, not allowing re-raise
4M : s/o
```

# 2.6 4-th seat

```
2D : 8-13, nat

2M : 8-13, nat

2N : 22-23 bal # 2C = 20-21/24+ bal

3X : nat solid ST
```

# 2.7 higher preempt

```
2N*: 5-9, 55ms+; could be 64 if partner PH; could be 54 if NV/V
3X : nat pre
3N*: gambaling
4X : nat pre
4N : strong mms, slam interest
5m : nat pre
5M : nat, slam interest
```

# 2.8 2N (minors)

```
2N*- # 5-9, 55ms+; could be 64 if partner PH; could be 54 if NV/V
3m : s/o
3M : 6+M, inv, NF
3N : s/o
4m : s/o
4M : s/o
4N*: inv to slam
5m : s/o
```

Chapter 3 comp

### 3.1 Gladiator

```
1m -(1M)- P -(P); 1N -(P) - Galdiator (1X)- X^*; ... 2N - Gladiator
```

# 3.2 good bad 2NT

```
1X - (1Y)- [bid/X] - (2Y) 

2N^* \rightarrow 3C^*: comp

3X : good hand # if [bid/X] shows inv+ then GF, otherwise inv
```

```
# other situations that applies
1X - (P) - 1Y - (2M = jump overcall) - 2N^*: good-bad
1X - (2Y) - X^* - (P) - 2N^*: good-bad
(1X) - 1Y - (2X) - 2N^*: good-bad
(1X) - X^* - (2X) - 2N^*: good-bad
(1X) - 2Y - (2X) - 2N^* \rightarrow 3C^*: tr. Leb. # notice the difference!
```

# 3.3 other

## 3.3.1 vs transfer openings

```
(1M-1*)- # 4+M

1M*: 16+, t/o; or 19+, any

X*: 10+, t/o; or 16-18, any

(1S*)- # 4+D

X*: t/o

2D*: MMs

(1D*)- # 44+M

1M: nat

X*: minor-oriented t/o
```

#### 3.4 overcall

```
(1m) -
# style: the stronger the hand, more shapely to pre 2M
# V/NV
P : # may be lengthy but not enough values, ex: AJxxxxx.xxx.x
1M : (8)9-17, 5+M # rebid <math>2M = 14-17
2M : 9-13(14), 6+M # promise defensive values
# V/V
1M : 8-17, 5+M # could be weaker (LD) if partner PH
2M : 6+M, pre # usually not 6322; unless ex: KQJ9xx.xx.Kxx.xx
# NV/NV
1M: 8-17, 5+M # 4oM or afraid of losing game
2M : (5)6+M, pre # usually unbal and partner PH if 5M
# KQxxx.JTxx.x.Qxx: 2S
# KJxxx.xxx.QJTx.x: 1S/2S
# KQJxx.xxx.Qxx.xx: 1S/1-2S
# NV/V
1M : 8-17, 5+M # 4oM or afraid of losing game
2M : 5+M, pre # wild if partner PH
# KQJxx.xxx.Qxx.xx: 1S/2S
# KJxxx.xx.xxx. P/2S
```

#### 3.5 unusual

```
\# if we are able to overcall the higher suit at 1-level, then range = 3-10
  or 16+; otherwise 10+
(1M) - 2M^* : 5 + oM, 5 + m
          - 3C*: P/C
          - 2N^*: ask
                -3m:5+m,1o
                - 3H^*: 5+C, hi
                - 3S^*: 5+D, hi
          - 3X : nat s/o
(1M) - 2N^* : 55 + ms
(1m) - 2m^*: 55+Ms; 54+ if NV/V
(1m) - 2N^*: 5+H, 5+om
# NV/V
(1m) - 2m^* - 2N^*: ask
                - 3C*: min
                     - 3D^*: ask
                          - 3H*: 5+S
                          - 3S*: 5+H
                     - 3H*: P/C
                - 3D^*: min, 55Ms
                - 3H^*: max, 5+S
                - 3S^*: max, 5+H
                - 3N^*: max, 55Ms
                - 4m: 16+, shortness in om
(1X) - (1Y) -
```

```
(1X) - (1Y) -

X*: 44+ unbid suits or strong

1N*: 54+ unbid suits
```

```
(1X) - 2m -(2X) - P -(P) - 2N^*: 64 + mms
```

### 3.6 vs 1N

```
(1N) -
# case 1: non-pass
X : 15+
2C^*: H and another suit, 54+ either-way # if MM then should be 54xx+
  - 2D*: P/C # ask the 5-card suit
2D^*: S and another suit, 54+ either-way # if MM then should be 45xx+
  - 2H*: P/C
2M : nat, (5)6+M
2N^*: 55(54) + mms
3X : nat, comp
# case 2: PH
\mathbf{X}^* : S and another suit, 54+ either-way
  - 2C*: P/C
2m^*: H and m, 54+ either-way
2M : nat, (5)6+M
2N^*: 55(54) + mms
3X : nat, comp
```

## **3.7** vs pre

#### 3.7.1 vs nat

#### 3.7.2 vs multi

```
(2D*)- # weak, some 6+m
X : 13+, near-bal; or 16+, any
P* : may be some 12-15 t/o against M [X]
2M : 12-17, 5+M
2N* → 3C*: 12-14, some 6+m
3m : 15-17, 5+m
3M : 15-18, 6+M
3N : s/o
4X : nat strong NF
```

### 3.7.3 vs Ekren

```
(2D*)-
X : 14+, near-bal
2H*: 14+, 5+C
2S*: 14+, 5+D
2N*: 16+, mms
3C*: 12-15, mms
3D : nat NF
3M : 15-17, 6+M
```

### 3.7.4 vs transfer preempt

```
(3X-1*)- # transfer pre to 3X
P* : then X = pen
```

```
X* : 15-17 [P]; or 18+ near-bal [X]
3X*: 18+, t/o
bid: nat
```

#### 3.7.5 misc

```
1m - (3M) - X*: ask for stopper; may have 4oM
1m - (3M) - P - (P) - X*: ask for stopper; may have 4oM
# resp: pen with KJxx+ (IP) or equivalent values, otherwise
# 5 good oM [3/4oM] > 1.5 stop [3N] > 4 good oM [3/4oM] > 1 stop [3N]
```

## 3.8 vs prec

```
(1C*)- # strong
\# be a bit decipline when V
X^*: 12+, 4H5m or 5+H
   - 1D*: ask
        - 1H : 5+H
        - 2m : 5+m
1D*: 12+, 4S5m or 5+S
   - 1H*: ask
        - 1S : 5+H
        -2m:5+m
1H*: (Rank) 0-10, 44+m or 44+M
1S*: (Odd) 0-10, 4C4H or 4D4S
1N^*: (Color) 0-10, 4D4H or 4C4S
  # bids below apply to 1H^*/1S^*/1N^*
   # even after opp. bids
   # if you have your own suit, bid twice
  -1N: nat, (17)-(20)
   - bid: P/C
  - 3M+: nat
2m : 10+, 5+m
2M+: nat pre
2N^*: mms, pre
```

## 3.9 X

(1X) - X\* -(P) -2X\*: inv+ w/o stopper; or GF Chapter 4
util

# 4.1 1-2-3 Stops

```
1m - (1X); 2m
2X*: inv+
2N : inv
3m : s/o
```

```
1M - (X); 2X-1*: (5)6+X, 6-10; or 4+X, GF
3X : s/o against weak variant
```

#### 4.2 2NT

```
# B = bid, all (B) here are NF raise, or bids that (may be) weak
 1Y - (2X) - 2N : nat
 1X - (2Y) - 2N : nat
 1N - (2X) - 2N : tr. Leb
(2C) - X^* - (P) - 2N : nat
(2X)-X^*-(P)-2N:tr. Leb
(1C) - X^* - (2C) - 2N : nat
(1X) - X^* - (2X) - 2N : tr. Leb
(1X) - 1Y - (B) - 2N : nat
(1Y) - 2m - (B) - 2N : nat
(1S) - 2H - (2S) - 2N^* \rightarrow 3C \# 3X \rightarrow 3[X+1]
(1X) - 1M - (2Z) - 2N^* \rightarrow 3C \# 3X \rightarrow 3[X+1]
(1X) - 1m/2m - (2Z) - 2N : nat
 1X - (2M) - X^* - (P) - 2N : good-bad
 1X - (1Y) - X/B - (2Y) - 2N : good-bad
 1X - (1Y) - X/B - (2Z) - 2N : good-bad
 1Y - (2C) - X/B - (P) - 2N : nat
 1Y - (2X) - X/B - (P) - 2N : good-bad
 1Y - (2X) - P - (P) - 2N : t/o, usually 64+mms
 1Y - (B) - P - (2X) - 2N : t/o, usually 64+mms
(2M) - P - (P) - X^* - (P) - 2N : tr. Leb
(1X) - P - (2X) - X^* - (P) - 2N : tr. Leb
(1X) - X^* -(B) - X^* -(P) - 2N : normal Leb (good-bad)
(1X) - 1Y -(B) - X^* -(P) - 2N : normal Leb (good-bad)
(1Y) - 2X -(B) - X^* -(P) - 2N : normal Leb (good-bad)
(1C) - 2X - (2C) - X^* - (P) - 2N : nat
(1X) - 1N - (2X) - X^* - (P) - 2N : min nat
# general rules for other situations:
# ... X^* -(P) - 2N = usually normal Leb (good-bad)
# ... X^* -(B) - 2N = normal Leb (good-bad) if X = neg or t/o
\# free bid 2N is nat if inv is possible; otherwise t/o
```

# 4.3 Forcing Pass

# 4.3.1 XX = Q

## 4.4 suit GT

```
[fit in 2S] -
2N*: HSGT or ST, no shortness
  - 3X*: Qxx or xxx in X # partner having ctrl/xx is consider helped
   - 3N+: max # may need to cuebid since partner may want to ST
3S:s/o
# case 1: bidder only shows one suit
3C*: C spl GT; or H spl GT (lo); or C spl ST
   - 3D*: inv C spl
        - 3H*: H spl (lo)
        - 3S : C spl (lo)
        - 3N+: C spl ST
        - 4S : C spl (hi)
  - 3H*: inv H spl
3D*: D spl GT or ST
  - 3H*: inv
3H*: H spl GT (hi) or ST
\# case 2: if bidder already shows another suit X, spl X replaced by long X
```

```
[fit in 2H] -
2S*: HSGT or ST, no shortness
  - 2N+: Qxx or xxx in X # partner having ctrl/xx is consider helped
   - 3H : min
   - 3S+: max # may need to cuebid since partner may want to ST
3H : s/o
# case 1: bidder only shows one suit
2N*: S spl GT; or D spl GT (lo); or S spl ST
  - 3C*: inv S spl
        - 3D*: D spl (lo)
        - 3H : S spl (lo)
        - 3S+: S spl ST
        - 4H : S spl (hi)
   - 3D*: inv D spl (lo)
3C*: C spl GT or ST
   - 3S*: inv
3D*: D spl GT (hi) or ST
# case 2: if bidder already shows another suit X, spl X replaced by long X
```

## 4.5 2NT and Lebensohl

## 4.6 maximum X

```
fit in 2M - (opp. comp to 3X) -
# if X = M - 1
X* : inv+ # allow pen with low probability
# otherwise
3M-1: inv+
```

```
(1m) - 2H [V/NV] - (3D) - X* : 2+H, inv
(1m) - 2H [V/NV] - (3C) - 3D* : 2+H, inv
```

### 4.7 Rubens

```
(1X)- 1M -(P/X)-
XX : 10+, near bal
1N : nat
# if Y < X
2Y : 10+, nat, F1
# if Y >= X
2Y*→2Y+1: 10+, 5+[Y+1] # if Y+1 = M then it means good raise
2X : comp. raise
```

```
(1X)- 1M -(2X)-
?
```

```
 \begin{array}{l} (1Y)-\ 2X\ -(P/X)-\\ XX\ :\ 10+,\ near\ bal\\ \#\ if\ Z\ <\ Y\\ 2Z\ :\ 10+,\ 5+Z\\ \#\ if\ Z\ >=\ Y\\ 2Z^*\to 2Z+1\colon\ 10+,\ 5+[Z+1]\quad \#\ if\ X\ =\ C,\ 2S\ is\ good\ raise\\ 2N\ :\ nat\ inv\\ \#\ if\ Z\ <\ X\\ 3Z^*\to 3Z+1\colon\ 10+,\ 5+[Z+1]\quad \#\ 3X-1\ is\ good\ raise \\ \end{array}
```

```
(1Y) - 2X - (2Y) - X^* : neg.
2S : NF
# if Y = C/D/H
2N^* \rightarrow 3C^* : 10+, 3/5/5+C
# if Y = D/H
3C^* \rightarrow 3D^* : 10+, 3/5+D
# if Y = H
3D^* \rightarrow 3H^* : 10+, 3+H
```

## 4.8 Slam bidding

#### 4.8.1 cuebid

```
cue = 1/2nd ctrl
# if opener shows a suit (unless 1C - 1X; 1N/2N), then
opener's cue on that suit = 2 of AKQ, usually source of tricks
resp's cue on that suit = never shortness, can be Q
```

#### 4.8.2 FF

```
[fit in 3M] -
4M : min
3M+1*: FF, mild slam interest
4X*: cuebid, strong slam interest
```

#### 4.8.3 kickback RKC

```
[fit in S] - 4N*: ask number of keycards # 4 Ace + Trump K
5C*: 0/3 keycards
    - 5H*: escape to 5S if 0-keycards
5D*: 1/4 keycards
    - 5S*: P if 1-keycard
5H*: 2/5 keycards w/ Trump Q
5S*: 2/5 keycards w/o Trump Q
5N*: 0/2/4 keycards, some void
    - 6C*: ask
          - 6X*: void in X
6X*: 1/3 keycards, void in X
```

```
[fit in X] - [4X+1]*: ask number of keycards
# similar responses, 5N replaces void in [X+1]
[fit in H] - (4S); 4N*: RKC
```

#### 4.8.4 ERKC

```
[fit in X] -
# if opener already shows non-void Y, then it replaces the highest ERKC
5Y*: ask number of keycards, excluding Y
   - +1*: 0/3 keycards
   - +2*: 1/4 keycards
   - +3*: 2 keycards
```

#### 4.8.5 Obvious ERKC

```
[opp. bids Y (or bidder showed shortness in Y) and we fit in X] - 4X+2*: ask number of keycards, excluding Y # 5Y replaces ERKC in X+2 or the highest ERKC (if X+2 is NT)
```

#### 4.8.6 ORKC

```
preempt in X (not C) - 4C*: ORKC

4D*: min

4H+: same as resp. to RKC
```

#### 4.8.7 2-suied RKC

```
1M - 2X; 3X - 3M; ... [4M+1]: 2-suited RKC
# Queen of M and X act as 0.5 keycards
+1*: 0/3/6 keycards # may +0.5
    - +2*: ask if there's extra 0.5
    - 5M*: no
+2*: 1/4/7 keycards # may +0.5
    - +3*: ask if there's extra 0.5
    - 5M*: no # +4 = 5M
+3*: 2/5 keycards
+4*: 2.5/5.5 keycards
```

# **4.9** UwU

TBD (low-low, high-high)

#### 4.10 XYZW

#### 4.10.1 2wPCB

(https://www.ptt.cc/man/BridgeClub/D6D1/D49B/D130/M.924860463.A.html)

```
1X - 1Y; 1N
2C^* \rightarrow 2D^*: transfer accepted
       -P:s/o
        -2M: s/o, choose a partial [M <= Y]; inv, 5+Y, 4+M [M > Y]
        -2N^*: inv
        - 3Z: inv, 6+Z [Z = Y] or 4+Z [Z = X] or 5+Z and 4Y [otherwise]
        - 3N*: 5332, CoG # different from BTUBWS
   -2Y^*: max, 3Y
2D^*: GF, ask
  - 2M : 3M [M = Y]  or 6M [M = X]  or 4M [otherwise]
   - 2N : nat
  - 3X : good 5+X
2M : inv, 5+M [M = Y] or 4+M [otherwise], NF
2N^* \rightarrow 3C^*: transfer accepted
        -P:s/o
        - 3D : 4-5Y, CoG, no slam interest. spl D.
             - 3H*: ask if 5Y
        -3H:4-5Y, CoG, no slam interest. spl H. # spl C if Y = H
             - 3S^*: ask if 5Y
        -3S:5Y, CoG, no slam interest. spl H. # spl C if Y = S
        -3N:4Y, CoG, no slam interest. spl H. # spl C if Y = S
        # a bit diff from BTUBWS. similar to 1N - 2S; any - 3M^*
3Z : ST, 4+Z [Z = X] or semi-solid 6+Z [Z = Y] or 5+Z [otherwise]
3N : s/o
4C+: 7+Y, spl
 - 4M : waste
4Y : s/o
```

#### 4.10.2 PLOB

```
1C - 1D*; 1H*-
# 2S* is usually F1 only
1S*: any (9)10-14
- 1N : 12-14, 2H bal
- 2C : s/o
- 2C : 12-14, 2-H, (5)6+C
# bids below applies to both 1N and 2C
- 2D*: F, not prefer to declare NT
- 2H : s/o
- 2S : s/o
```

```
- 2N+: nat inv
   - 2D*: GF ... (TBD)
   - 2H : F, 3H
        - 2S*: F
        - 3S : inv
   - 2S^*: GF, not prefer to declare NT
1N : nat NF
2X : s/o
   - 2S*: F
   - 2N+: nat inv
  - 3S*: 6+C, 5+S, F
2N^*: 15+, catchall
3C*: fit in C, ST
3D*: 5+H, 5+D, ST
3H*: 6+H, ST
3S^*: 4+S, ST
3N^*: 18-19, 4H
```

```
1D - 1H; 1S -
1N : nat NF
2C^*: any (9) 10-14
   - 2D : 12-14, 2-H
        - P : s/o
        -2H : s/o
        - 2S^*: F, not prefer to declare NT
             - 2N : min
             - 3N : max
        - 2N+: nat inv
   - 2H : F, 3H
   - 2S*: general GF
   - 2N+: nat GF
2X : s/o
2N^*: 15+, catchall
3C^*: fit in D, ST
3D^*: 5+H, 5+C, ST
3H^*: 6+H, ST
3S^*: 4+S, ST
3N^*: 18-19, 4H
```

Chapter 5 cardplay

### 5.1 lead

```
# lead vs suit: 3-low
\# A/K = ask for count/att, but vs slam K = ask for count
A : Ax, AK, AKQ+, (AK+)
K : Kx, AKx, KQ+, (AK+)
Q : Qx(+), QJ+, (AQJ+)
J : Jx(+), JT+, AJT+, KJT+, (AJx), (KJx)
T : Tx, T9+, AT9+, KT9+, QT9+
hi-X: Xx, xXx+
lo-X: xXx+, HxX, HxXx, HxxxX, HxXxxx..., (xxX+)
# lead vs NT: 4-th
A : Ax, AKQ+, AK
K : Kx, KQ+, AKx, AKJT+
Q : Qx(+), QJ+, AQJ+, KQT9+, (AQx)
J^*: Jx(+), JT+
T^*: Tx(+), T9+, AJT+, KJT+
9*: 9x(+), AT9+, KT9+, QT9+, [AKT9+], [AQT9+] # exceptionally
hi-X: Xx, xXx+, (Xx+)
lo-X: HxX, HxxX+, HHxX+, xXx+
```

# 5.2 signal

```
UDCA: lo = enc/even
# vs suit
partner's lead: att, s/p
declarer's lead: cnt, s/p
discarding: att
# vs NT
partner's lead: att, s/p
declarer's lead: cnt, s/p
discarding: lav
```

#### 5.2.1 Smith echo

```
# vs NT, declarer wins the lead, then on the next round available for
    signal,
# if first round x - x - H - win
both defenders' lo: enc leading suit
# if first round x - win - [att] - x
leader's lo: enc leading suit
# note: on/off may depends on dummy/lead
```

#### 5.2.2 other

```
# vs suit, knowing partner empty
hi/lo = S/P
```