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| bridge-cc |
|-----------|
|-----------|

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

```
1N - (2m = nat) - X* : t/o
1N - (2M = nat) - X : pen
# otherwise UwU
```

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 (meckwell) DONT

```
1N -(X*) # some 6+X
XX : inv+, near bal
```

```
2N*→3C*: s/o
other: system on

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

1N -(2H) # MMs
X : near bal, about Hxx+
2N*→3C*: s/o in m
2S*: inv+
3m : nat inv
3M*: GF, ask stop
3N : s/o

1N -(2S)
X : pen
```

```
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) # nat
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*: F1
2C*: 16+, any; or 12-15, 6+S
2D : 12-15, nat
2H : 12-15, 4+H
2S : 12-15, 4+C
2N*: 14-16, 6+S, 4+X
- 3C*: ask
- 3X : 4+X
- 3S*: 4+C
3X : 14-16, 5+X, NF
3S : 15-17, (s-)solid 6+S
3N*: GF, solid 7+S
```

```
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+
```

 $4\text{C}^*:$ Gerber $4\text{D}^* \to 4\text{H}^*: \ 6+\text{H, MST}$ $4\text{H}^* \to 4\text{S}^*: \ 6+\text{S, MST}$ $4\text{S}^*: \ \text{good Quant}$ $4\text{N}^*: \ \text{bad Quant}$