**Big BLD 3-Style X-Center Algorithms**

**高盲三循环角心公式**

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Buffer is C (Ufr). This sheet uses Speffz letter scheme, and only gives cases, where  is ahead of  alphabetically. Inverse to get . A: B = A B A'. [A, B] = A B A' B'.

缓冲块为C (Ufr)。本表采用Speffz编码，且仅列出情况，其中在字母表中比靠前。取的逆即可得到。

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| --- | --- | --- | --- | --- |
|  |  | **A** Ubl | **B** Urb |  |
| Urb | **B** | **x Rw': [U, r' d2 r]** |  |  |
| Ulf | **D** | **x' Lw': [l' d2 l, U]** | **x' Rw: [U', r d2 r']** |  |
| Lub | **E** | **[r u r', U2]** | **[r u r', U]** |  |
| Lfu | **F** | **U': [r' u' r, U2]** | **[U', r' u' r]** |  |
| Ldf | **G** | **[r' d r, U2]** | **[r' d r, U]** |  |
| Lbd | **H** | **U': [r d' r', U2]** | **[U', r d' r']** |  |
| Ful | **I** | **[r u2 r', U2]** | **[r u2 r', U]** |  |
| Fru | **J** | **y: [U2, r' u' r]** | **y': [r' u r, U]** |  |
| Fdr | **K** | **[U2, l' d2 l]** | **y: [U', r' d r]** |  |
| Fld | **L** | **y: [U2, r d' r']** | **[U', r d2 r']** |  |
| Ruf | **M** | **[r u' r', U2]** | **[r u' r', U]** |  |
| Rbu | **N** | **U': [r' u r, U2]** | **[U', r' u r]** |  |
| Rdb | **O** | **[r' d' r, U2]** | **[r' d' r, U]** |  |
| Rfd | **P** | **U': [r d r', U2]** | **[U', r d r']** |  |
| Bur | **Q** | **[U2, l u2 l']** | **y: [U', r u' r']** |  |
| Blu | **R** | **y: [U2, r' u r]** | **[U', r' u2 r]** |  |
| Bdl | **S** | **[r' d2 r, U2]** | **[r' d2 r, U]** |  |
| Brd | **T** | **y: [U2, r d r']** | **y': [r d' r', U]** |  |
| Dfl | **U** | **Rw U' D': [U' r' U, l2]** | **x': [d2, r U r']** |  |
| Drf | **V** | **Lw' U': [r2, U' l U]** | **U' Lw': [r2, U' l U]** |  |
| Dbr | **W** | **Lw' U' D': [r2, U' l U]** | **U Lw: [U l' U', r2]** |  |
| Dlb | **X** | **Rw' U': [U' r U, l2]** | **x: [r' U' r, d2]** |  |
|  |  |  |  |  |
|  |  | **D** Ulf | **E** Lub | **F** Lfu | **G** Ldf |
| Lub | **E** | **[r u r', U']** |  |  |  |
| Lfu | **F** | **[U, l' u l]** | **z: [r d r', U']** |  |  |
| Ldf | **G** | **[r' d r, U']** | **z: [r d r', U2]** | **z: [U, l d' l']** |  |
| Lbd | **H** | **[U, l d l']** | **z: [r d r', U]** | **z U': [r d r', U2]** | **z: [l d' l', U']** |
| Ful | **I** | **[r u2 r', U']** | **[u', l' U2 l]** | **L': [u', l' U2 l]** | **l': [l' d' l, U2]** |
| Fru | **J** | **[U, l' u2 l]** | **U': [r, Uw' l' Uw]** | **U: [u', r U2 r']** | **U' Dw': [r, U' l U]** |
| Fdr | **K** | **x: [U l U', r']** | **Lw: [U l U', r]** | **[r, Uw l Uw']** | **U: [d, r U' r']** |
| Fld | **L** | **x: [l, U' r' U]** | **Uw: [l', U' r' U]** | **x: [r' U' r, u]** | **L: [d, l' U l]** |
| Ruf | **M** | **[r u' r', U']** | **Uw: [r' U' r, u2]** | **R2 y: [U' r U, l]** | **z' r: [u', r U2 r']** |
| Rbu | **N** | **[U, l' u' l]** | **x' z' U: [l2, U r U']** | **u: [l U l', u2]** | **z' r: [u', r U r']** |
| Rdb | **O** | **[r' d' r, U']** | **x' z: [r2, U l' U']** | **y: [U' r U, l]** | **y: [d2, r U' r']** |
| Rfd | **P** | **[U, l d' l']** | **y: [l', U' r' U]** | **R' y: [U' r U, l]** | **R' y: [d2, r U' r']** |
| Bur | **Q** | **x': [U l' U', r]** | **Uw: [r' U' r, u']** | **[Uw l Uw', r']** | **z: [r' U2 r, d]** |
| Blu | **R** | **x': [l', U' r U]** | **L: [u, l U l']** | **[u, l U l']** | **Dw: [U l U', r]** |
| Bdl | **S** | **[r' d2 r, U']** | **l: [l u' l', U2]** | **x': [r U2 r', d]** | **[d', l U2 l']** |
| Brd | **T** | **[U, l d2 l']** | **Uw': [r', U' l' U]** | **x' d2: [l U' l', d]** | **U' z d2: [r U' r', d]** |
| Dfl | **U** | **Rw' D': [U' r U, l2]** | **y: [l2, U' r' U]** | **Uw': [U' l2 U, r]** | **l: [d', l U2 l']** |
| Drf | **V** | **Lw D: [r2, U l' U']** | **Uw': [r2, U' l' U]** | **D: [r2, Uw l Uw']** | **U D r: [d, R U' R']** |
| Dbr | **W** | **Lw: [r2, U l' U']** | **x' Rw: [r2, Uw l Uw']** | **[r2, Uw l Uw']** | **U r: [r U' r', d]** |
| Dlb | **X** | **Rw': [l2, U' r U]** | **u: [U l2 U', r']** | **l: [u, l U l']** | **d: [U l2 U', r]** |
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|  |  |  |  |  |  |
|  |  | **H** Lbd | **I** Ful | **J** Fru | **K** Fdr |
| Ful | **I** | **x Rw': [r' d r, U2]** |  |  |  |
| Fru | **J** | **U r: [r d' r', U2]** | **U': [r, U' l' U]** |  |  |
| Fdr | **K** | **z d2: [r' U r, d']** | **x: [l u2 l', U2]** | **z x: [r u' r', U']** |  |
| Fld | **L** | **[d, l' U l]** | **z' x: [U', r u' r']** | **z x: [r u' r', U2]** | **[U l' U', r]** |
| Ruf | **M** | **y' U: [r', U l' U']** | **[l' U2 l, u]** | **U R: [r U2 r', u]** | **z': [u', r U2 r']** |
| Rbu | **N** | **Uw r: [r d' r', U2]** | **U2: [Uw r Uw', l']** | **U: [r U2 r', u]** | **z': [u', r U r']** |
| Rdb | **O** | **x' z U: [U l' U', r2]** | **x Rw': [r' d' r, U2]** | **R' U: [r U2 r', u]** | **U: [r U' r', d']** |
| Rfd | **P** | **d: [l' U l, d2]** | **x: [u', r' U2 r]** | **z' x: [r' U2 r, u]** | **U R': [r U' r', d']** |
| Bur | **Q** | **z: [r' U r, d]** | **[l' U2 l, u2]** | **U x U: [U l U', r2]** | **U x': [r2, U l' U']** |
| Blu | **R** | **l: [l d l', U]** | **x U': [U' r' U, l2]** | **[u2, l U l']** | **[U l U', r]** |
| Bdl | **S** | **L': [d', l U2 l']** | **U' x': [l2, U r U']** | **U': [U' l U, r]** | **[d2, l U2 l']** |
| Brd | **T** | **d: [l' U l, d]** | **U': [r', U' l' U]** | **U2 x': [r2, U' l' U]** | **x Uw': [Uw' l' Uw, r2]** |
| Dfl | **U** | **L l': [u', l' U2 l]** | **U' x: [U r' U', l']** | **U': [U' l2 U, r]** | **[D': [U l2 U', r]** |
| Drf | **V** | **Dw: [r2, U l' U']** | **U': [r2, U' l' U]** | **D' U': [U' l2 U, r]** | **[D2: [U l2 U', r]** |
| Dbr | **W** | **z d: [r' U r, d2]** | **D' U': [r2, U' l' U]** | **y r: [u', r U2 r']** | **[D: [U l2 U', r]** |
| Dlb | **X** | **l': [d, l' U l]** | **x U': [U' r' U, l']** | **x U: [r', U l' U']** | **[U l2 U', r]** |
|  |  |  |  |  |  |
|  |  | **L** Fld | **M** Ruf | **N** Rbu | **O** Rdb |
| Ruf | **M** | **u': [r', U l' U']** |  |  |  |
| Rbu | **N** | **l': [U, l' u' l]** | **z': [l' u l, U']** |  |  |
| Rdb | **O** | **x Rw': [r' d' r, U']** | **z': [U2, r' u' r]** | **z': [U, r' u' r]** |  |
| Rfd | **P** | **[l' U l, d']** | **z': [l' u l, U]** | **z' U: [r' u' r, U2]** | **z': [r' u' r, U']** |
| Bur | **Q** | **[r', U l' U']** | **U: [u', r' U' r]** | **z' u': [u', r U r']** | **z': [l U2 l', u]** |
| Blu | **R** | **x: [U' r' U, l2]** | **U: [l, Uw' r' Uw]** | **[u', l U l']** | **Dw': [U l U', r]** |
| Bdl | **S** | **x' U': [l2, U' r U]** | **x' Rw: [U2, r u' r']** | **z' r': [U, r' u' r]** | **[d, l U2 l']** |
| Brd | **T** | **[l' U l, d2]** | **Uw U: [U r' U', l']** | **y r: [U2, r d r']** | **U Rw': [r' u r, U2]** |
| Dfl | **U** | **x: [u2, r' U' r]** | **l': [u, l' U2 l]** | **R y: [l2, U' r U]** | **y: [l2, U' r U]** |
| Drf | **V** | **D: [r2, U l' U']** | **Uw U: [U r2 U', l']** | **y U: [l2, U r U']** | **y D': [l2, U' r U]** |
| Dbr | **W** | **[r2, U l' U']** | **x z': [r U r', u2]** | **z' u: [r U r', u2]** | **U r: [r U' r', d']** |
| Dlb | **X** | **x: [U' r' U, l']** | **u': [U l2 U', r']** | **l: [u', l U l']** | **d': [U l2 U', r]** |
|  |  |  |  |  |  |
|  |  | **P** Rfd | **Q** Bur | **R** Blu | **S** Bdl |
| Bur | **Q** | **z': [l U l', u]** |  |  |  |
| Blu | **R** | **x': [r U' r', d']** | **[U l U', r']** |  |  |
| Bdl | **S** | **x': [r U2 r', d']** | **x': [U2, l' d2 l]** | **x': [U, l' d2 l]** |  |
| Brd | **T** | **z': [Uw l Uw', r']** | **z' x': [U', r' d r]** | **l: [U, l d2 l']** | **U': [U' l U, r']** |
| Dfl | **U** | **y' D': [U' l2 U, r']** | **y: [l2, Uw' r' Uw]** | **x': [d2, r U' r']** | **U' x': [U r U', l]** |
| Drf | **V** | **U2 r': [d, r' U r]** | **Uw': [r2, Uw' l' Uw]** | **D: [r2, U l U']** | **U': [r2, U' l U]** |
| Dbr | **W** | **d': [r2, U l' U']** | **[D: [U l2 U', r']** | **[r2, U l U']** | **U r: [r U' r', d2]** |
| Dlb | **X** | **l': [d', l' U l]** | **[U l2 U', r']** | **x': [l, U' r U]** | **x' U': [U' r U, l]** |
|  |  | **T** Brd | **U** Dfl | **V** Drf | **W** Dbr |
| Dfl | **U** | **U': [U' l2 U, r']** |  |  |  |
| Drf | **V** | **D' U': [r', U' l2 U]** | **U': [r2, U' l2 U]** |  |  |
| Dbr | **W** | **D l': [d2, l' U l]** | **Lw' U' D': [r2, U' l' U]** | **D Lw': [U l' U', r2]** |  |
| Dlb | **X** | **l': [l' U l, d2]** | **x': [d2, l U l']** | **Lw' D: [U l' U', r2]** | **[U l2 U', r2]** |