Regular Definitions.

Punctuations → [| { | (|) | } |] | ::

operators → < | > | <> | := | == | + | - | ++ | += | <= | >= | % | || | && | != | * | " | " | / | // | >>

Digit → [0-9]

Digits → Digit$^+$

Number → Digits (. Digits)? (E[+-]? Digits)

Letter → [a-zA-Z]

Identifier → Letter$^+$ _ (Letter | _)* | _ (Letter | _)

Keywords → asm | Wagaena | new | this |
auto | enum | operator | throw |
Mantiqi | explicit | private | True |
break | export | protected | try |
case | extern | public | typedef |
catch | False | register | typeid |
Harf | Ashriya | typename |
Adadi | class | for | Wapas |
union | const | dost | short |
unsigned | goto | signed | |

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continue | Agar | sizeof | virtual | default | inline | static | Khali | delete | volatile | do | long | struct | double | mutable | switch | while | namespace | template | Nagazi | Matn | input -> | output <- .

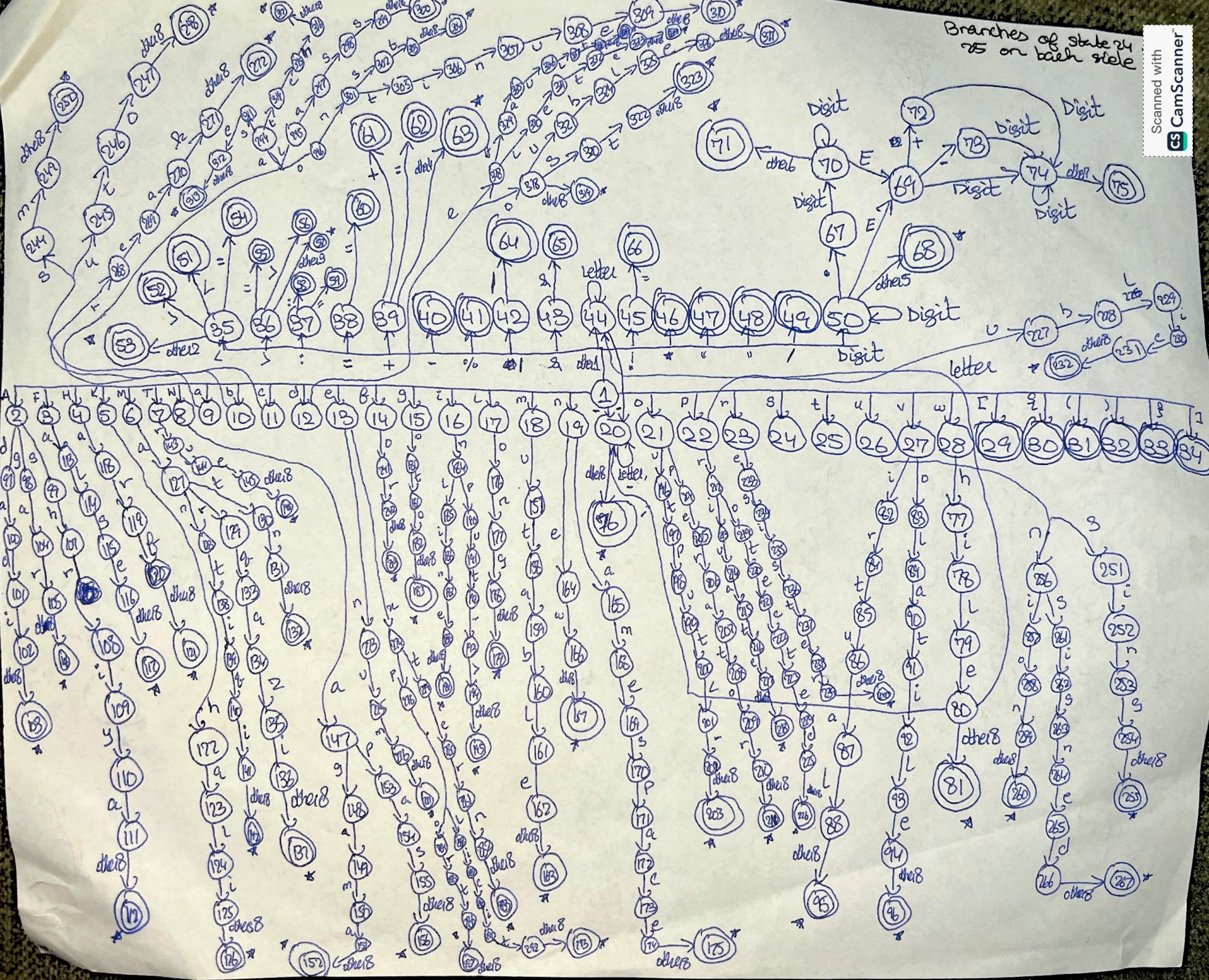
Patterns in Keywords.

Start with A (3 Keywords).
Start with F (1 Keyword)
Start with H (1 Keyword)
Start with K (1 Keyword)
Start with M (3 Keyword)
Start with T (1 Keyword)
Start with W (2 Keyword)
Start with a (2 Keyword)
Start with b (1 Keyword)
Start with c (5 Keyword)
Start with d (5 Keyword)
Start with e (4 Keyword)
Start with f (1 Keyword)
Start with g (1 Keyword)
Start with i (2 Keyword)
Start with l (1 Keyword)
Start with m (1 Keyword)
Start with n (2 Keyword)
Start with o (2 Keyword)

Start with p (3 keyword)
Start with r (1 keyword)
Start with s (6 keyword)
Start with t (7 keyword)
Start with u (8 keyword)
Start with v (2 keyword)
Start with w (1 keyword).

other1 = letter - {A, F, H, K, M, T, W, a, b, c, d, e, f, g, i, l, m, n, o, p, r, s, t, u, v, w}
other2 = Σ_c - {<, =, >}
other3 = Σ_c - {>, =}
other4 = Σ_c - {+, -}
other5 = Σ_c - Digit - {.} - {E}
other6 = Σ_c - Digit - {E}
other7 = Σ_c - Digit
other8 = Σ_c - letter - {-}

Assumption taken that for keyword matching for every state there are 2 transition not shown. one is for the mismatch other than the required one for keyword which goes to state 44. other is the _ transition which goes to state 20.


Branches of state 24
as on each side
Digit
letter
other8
other12
other1
other6
other5
Scanned with CamScanner