Птахова ИВТ -21 д/з 4

G = <{if, then, else, begin, end, a, b, s, :=, < , > , =, <>, writeln, () },

{A, B, C, D, F, E, I, S}, S, P, Q>

Q={q0,q1,q2,q3,q4,q5,q6,q7,q8, q9, q10}

P:

{ S🡪if A then B else B | if A then B

A🡪a C b | b C a

B 🡪 begin D end | D

C 🡪 < | > | = | <>

D 🡪 s:=a E b; | s:=a E b; F

E 🡪 -| + | \* | /

F 🡪 writeln (I);

I 🡪 s }

(q0, if a>b then begin s:=a-b; end else s:=a+b; writeln(s); , S ) |-

(q1, if a>b then begin s:=a-b; end else s:=a+b; writeln(s); , S ) |-

(q2, if a>b then begin s:=a-b; end else s:=a+b; writeln(s); , if A then B else B ) |-

(q2, a>b then begin s:=a-b; end else s:=a+b; writeln(s); , A then B else B ) |-

(q3, a>b then begin s:=a-b; end else s:=a+b; writeln(s); , A then B else B ) |-

(q2, a>b then begin s:=a-b; end else s:=a+b; writeln(s); , a C b then B else B ) |-

(q2, >b then begin s:=a-b; end else s:=a+b; writeln(s); , C b then B else B ) |-

(q4, >b then begin s:=a-b; end else s:=a+b; writeln(s); , C b then B else B ) |-

(q2, >b then begin s:=a-b; end else s:=a+b; writeln(s); ,> b then B else B ) |-

(q2, b then begin s:=a-b; end else s:=a+b; writeln(s); , b then B else B ) |-

(q2, then begin s:=a-b; end else s:=a+b; writeln(s); , then B else B ) |-

(q2, begin s:=a-b; end else s:=a+b; writeln(s); , B else B ) |-

(q5, begin s:=a-b; end else s:=a+b; writeln(s); , begin D end else B) |-

(q2, s:=a-b; end else s:=a+b; writeln(s); , D end else B) |-

(q6, s:=a-b; end else s:=a+b; writeln(s); , D end else B) |-

(q2, s:=a-b; end else s:=a+b; writeln(s); , s:=a E b end else B) |-

(q2, :=a-b; end else s:=a+b; writeln(s); , :=a E b end else B) |-

(q2, a-b; end else s:=a+b; writeln(s); , a E b end else B) |-

(q2, -b; end else s:=a+b; writeln(s); , E b end else B) |-

(q7, -b; end else s:=a+b; writeln(s); , E b end else B) |-

(q2, -b; end else s:=a+b; writeln(s); , - b end else B) |-

(q2, b; end else s:=a+b; writeln(s); , b end else B) |-

(q2,; end else s:=a+b; writeln(s); , end else B) |-

(q2, else s:=a+b; writeln(s); , else B) |-

(q2, s:=a + b; writeln(s); , B) |-

(q5, s:=a + b; writeln(s); , B) |-

(q6, s:=a + b; writeln(s); , D) |-

(q2, s:=a + b; writeln(s); , s:=a E b; F) |-

(q2, :=a + b; writeln(s); , :=a E b; F) |-

(q2, a + b; writeln(s); , a E b; F) |-

(q2, + b; writeln(s); , E b; F) |-

(q7, + b; writeln(s); , E b; F) |-

(q2, + b; writeln(s); , +b; F) |-

(q2, b; writeln(s); , b; F) |-

(q2,; writeln(s); ,; F) |-

(q2, writeln(s); , F) |-

(q8, writeln(s); , F) |-

(q2, writeln(s); , writeln(I);) |-

(q2, (s); , (I);) |-

(q2, s); , I);) |-

(q9, s); , I);) |-

(q2, s); , s);) |-

(q2, ); , );) |-

(q2, ; , ;) |-

(q2, e , e) |-

(q10, e , e) |-

|  |  |  |  |
| --- | --- | --- | --- |
| **Q** | **X {e}** | **M** | **ᵹ** |
| q0 | e | S | (q1, if a>b then begin s:=a-b; end else s:=a+b; writeln(s); , S ) |
| q1 | e | S | (q2, if a>b then begin s:=a-b; end else s:=a+b; writeln(s); , if A then B else B ) |
| q2 | if | if | (q2, e, e) |
| q2 | a | a | (q2, e, e) |
| q2 | > | > | (q2, e, e) |
| q2 | b | b | (q2, e, e) |
| q2 | then | then | (q2, e, e) |
| q2 | begin | begin | (q2, e, e) |
| q2 | s | s | (q2, e, e) |
| q2 | := | := | (q2, e, e) |
| q2 | - | - | (q2, e, e) |
| q2 | ; | ; | (q2, e, e) |
| q2 | end | end | (q2, e, e) |
| q2 | else | else | (q2, e, e) |
| q2 | + | + | (q2, e, e) |
| q2 | writeln | writeln | (q2, e, e) |
| q2 | ( | ( | (q2, e, e) |
| q2 | ) | ) | (q2, e, e) |
| q2 | e | A | (q3, a>b then begin s:=a-b; end else s:=a+b; writeln(s); , A then B else B ) |
| q2 | e | C | (q4, >b then begin s:=a-b; end else s:=a+b; writeln(s); , C b then B else B ) |
| q2 | e | B | (q5, begin s:=a-b; end else s:=a+b; writeln(s); , B else B) |
| q2 | e | D | (q6, s:=a-b; end else s:=a+b; writeln(s); , D end else B) |
| q2 | e | E | (q7, -b; end else s:=a+b; writeln(s); , E b end else B) |
| q2 | e | F | (q8, writeln(s); , F) |
| q2 | e | I | (q9, s);, I)) |
| q2 | e | e | (q10, e, e) |
| q3 | e | A | (q2, a>b then begin s:=a-b; end else s:=a+b; writeln(s); , a C b then B else B ) |
| q4 | e | C | (q2, >b then begin s:=a-b; end else s:=a+b; writeln(s); , > b then B else B ) |
| q5 | e | B | (q2, begin s:=a-b; end else s:=a+b; writeln(s); , begin D end else B),  (q6, else s:=a+b; writeln(s); , D) |
| q6 | e | D | (q2, s:=a-b; end else s:=a+b; writeln(s); , s:=a E b end else B),  (q2, s:=a-b; end else s:=a+b; writeln(s); , s:=a E b; F) |
| q7 | e | E | (q2, -b; end else s:=a+b; writeln(s); , -b end else B) |
| q8 | e | F | (q2, writeln(s); , writeln(I)) |- |
| q9 | e | I | (q2, s);, s);) |