|  |  |  |  |
| --- | --- | --- | --- |
|  | Input String | Expected Outcome | Program Result |
| 1 | void f (double x, double y) { } | \_void [shift]  f [shift]  \_leftparen [shift]  \_double [shift]  x [reduce 11][shift]  \_comma [reduce 9][shift]  \_double [shift]  y [reduce 11][shift]  \_rightparen [reduce 9][reduce 21][reduce 22][reduce 20][shift]  \_leftbrace [shift]  \_rightbrace [shift]  [reduce 50][reduce 17][reduce 5][reduce 2][reduce 1]  [accept] | \_void [shift]  f [shift]  \_leftparen [shift]  \_double [shift]  x [reduce 11][shift]  \_comma [reduce 9][shift]  \_double [shift]  y [reduce 11][shift]  \_rightparen [reduce 9][reduce 21][reduce 22][reduce 20][shift]  \_leftbrace [shift]  \_rightbrace [shift]  [reduce 50][reduce 17][reduce 5][reduce 2][reduce 1]  [accept] |
| 2 | int i = 1; | \_int [shift]  i [reduce 10][shift]  \_assignop [reject] | \_int [shift]  i [reduce 10][shift]  \_assignop [reject] |
| 3 | result = 5.times(4); | result [shift]  \_assignop [reject] | result [shift]  \_assignop [reject] |
| 4 | front = in.nextLine(); | front [shift]  \_assignop [reject] | front [shift]  \_assignop [reject] |
| 5 | front = in.nextLine; | front [shift]  \_assignop [reject] | front [shift]  \_assignop [reject] |
| 6 | int[][][] super; | \_int [shift]  \_leftbracket [reduce 10][shift]  \_rightbracket [shift]  \_leftbracket [reduce 14][shift]  \_rightbracket [shift]  \_leftbracket [reduce 14][shift]  \_rightbracket [shift]  super [reduce 14][shift]  \_semicolon  [accept] | \_int [shift]  \_leftbracket [reduce 10][shift]  \_rightbracket [shift]  \_leftbracket [reduce 14][shift]  \_rightbracket [shift]  \_leftbracket [reduce 14][shift]  \_rightbracket [shift]  super [reduce 14][shift]  \_semicolon [reject] |
| 7 | a[3][4.5][b] = result = x + y + z; | a [shift]  \_leftbracket [reduce 15][shift]  \_intconstant [reject] | a [shift]  \_leftbracket [reduce 15][shift]  \_intconstant [reject] |
| 8 | for ( ; ; ) x = 1; | \_for [shift]  ( [shift]  ; [shift]  ; [reject] | \_for [reject] |
| 9 | // in function  if (h>w) g=h;  else h=g;  double a; | \_if [reject] |  |
| 10 | // in class  if (h>w) g=h;  else h=g;  double a; | \_if [reject] |  |
| 11 | string method (double y){  a = (5 + 3) \* 1;  } | \_string [shift]  method [reduce13][shift]  \_leftparen [shift]  \_double [shift]  y [reduce11][shift]  \_rightparen [reduce9][reduce21][reduce20][shift]  \_leftbrace [shift]  a [shift]  \_assignop [reduce109][shift]  \_leftparen [shift]  \_intconstant [shift]  \_plus [reduce117][reduce104][shift]  \_intconstant [shift]  \_rightparen [reduce117][reduce104][reduce94][shift]  \_multiplication [reduce103][shift]  \_intconstant [shift]  \_semicolon [reduce117][reduce104][reduce97][reduce79][reduce64][shift]  \_rightbrace [reduce127][reduce55][reduce54][shift]  [reduce48][reduce16][reduce5][reduce2][reduce1]  [accept] | \_string [shift]  method [reduce13][shift]  \_leftparen [shift]  \_double [shift]  y [reduce11][shift]  \_rightparen [reduce9][reduce21][reduce20][shift]  \_leftbrace [shift]  a [shift]  \_assignop [reduce109][shift]  \_leftparen [shift]  \_intconstant [shift]  \_plus [reduce117][reduce104][shift]  \_intconstant [shift]  \_rightparen [reduce117][reduce104][reduce94][shift]  \_multiplication [reduce103][shift]  \_intconstant [shift]  \_semicolon [reduce117][reduce104][reduce97][reduce79][reduce64][shift]  \_rightbrace [reduce127][reduce55][reduce54][shift]  [reduce48][reduce16][reduce5][reduce2][reduce1]  [accept] |
| 12 | void f(){  if(i == j){  int [] a;  }  } |  |  |