

1. Program  $\longrightarrow$  main()Compound\_st
2. Compound\_st  $\longrightarrow$  {Local\_dec St\_list}
3. Local\_dec  $\longrightarrow$  Var-dec Local\_dec
4. Local\_dec  $\longrightarrow$  0
5. Var\_dec  $\longrightarrow$  Specifier Id\_list ;
6. Id\_list  $\longrightarrow$  id Q
7. Q  $\longrightarrow$  [num]
8. Q  $\longrightarrow$  0
- 9.Specifier  $\longrightarrow$  int
- 10.Specifier  $\longrightarrow$  char
- 11.Specifier  $\longrightarrow$  bool
- 12.Specifier  $\longrightarrow$  float
- 13.St\_list  $\longrightarrow$  St St\_list // rafe ebham shodeh
14. St\_list  $\longrightarrow$  0
15. St  $\longrightarrow$  Selection
16. St  $\longrightarrow$  Compound\_st
17. St  $\longrightarrow$  Iteration
- 18.St  $\longrightarrow$  Exp
19. St  $\longrightarrow$  Ret-st
20. Ret-st  $\longrightarrow$  return S;
21. S  $\longrightarrow$  (Exp)
- 22.S  $\longrightarrow$  0
23. Exp  $\longrightarrow$  Id\_list = Exp

- 24. Exp  $\longrightarrow$  num op num
- 25. Op  $\longrightarrow$  Relop
- 26. Op  $\longrightarrow$  Logicop
- 27. Op  $\longrightarrow$  Arithop
- 28. Selection  $\longrightarrow$  if (Exp) St
- 29. Iteration  $\longrightarrow$  while (Exp) St
- 30. Relop  $\longrightarrow$  <
- 31. Relop  $\longrightarrow$  >
- 32. Relop  $\longrightarrow$  <=
- 33. Relop  $\longrightarrow$  >=
- 34. Relop  $\longrightarrow$  !=
- 35. Relop  $\longrightarrow$  ==
- 36. Arithop  $\longrightarrow$  +
- 37. Arithop  $\longrightarrow$  -
- 38. Arithop  $\longrightarrow$  /
- 39. Arithop  $\longrightarrow$  \*
- 40. Arithop  $\longrightarrow$  %
- 41. Logicop  $\longrightarrow$  &&
- 42. Logicop  $\longrightarrow$  ||