# 源文件：

const int id1=+10,id2=-10;

char ide3,ide4[5];

void fun1(int a){a=a+1;printf(a);}

int fun2(int a){return(a+10);}

void fun3(int a)

{

if(a>0)

{

printf(a);

fun3(a-1);

}

else

{

;

}

}

void main()

{

int i,a,b,c;

scanf(a,b,c);

if(a>10)

{

fun1(a);

do

{

a=a-1;

}while(a>5)

}

else

{

a=fun2(b);

for(i=0;i<3;i=i+1)

{

printf(a);

a=a+1-c;

}

}

if(b>10)

{

printf("hello world!");

}

fun3(c);

}

# 结果：

0 CONSTsym const

1 INTsym int

2 IDENT id1

3 BECOMES =

4 PLUS +

5 NUMBER 10

6 COMMA ,

7 IDENT id2

8 BECOMES =

9 MINUS -

10 NUMBER 10

11 SEMICOLON ;

12 CHARsym char

13 IDENT ide3

14 COMMA ,

15 IDENT ide4

16 Lbra [

17 NUMBER 5

18 Rbra ]

19 SEMICOLON ;

20 VOIDsym void

21 IDENT fun1

22 Lpar (

23 INTsym int

24 IDENT a

25 Rpar )

26 Lbrc {

27 IDENT a

28 BECOMES =

29 IDENT a

30 PLUS +

31 NUMBER 1

32 SEMICOLON ;

33 PRINTFsym printf

34 Lpar (

35 IDENT a

36 Rpar )

37 SEMICOLON ;

38 Rbrc }

39 INTsym int

40 IDENT fun2

41 Lpar (

42 INTsym int

43 IDENT a

44 Rpar )

45 Lbrc {

46 RETURNsym return

47 Lpar (

48 IDENT a

49 PLUS +

50 NUMBER 10

51 Rpar )

52 SEMICOLON ;

53 Rbrc }

54 VOIDsym void

55 IDENT fun3

56 Lpar (

57 INTsym int

58 IDENT a

59 Rpar )

60 Lbrc {

61 IFsym if

62 Lpar (

63 IDENT a

64 GT >

65 ZERO 0

66 Rpar )

67 Lbrc {

68 PRINTFsym printf

69 Lpar (

70 IDENT a

71 Rpar )

72 SEMICOLON ;

73 IDENT fun3

74 Lpar (

75 IDENT a

76 MINUS -

77 NUMBER 1

78 Rpar )

79 SEMICOLON ;

80 Rbrc }

81 ELSEsym else

82 Lbrc {

83 SEMICOLON ;

84 Rbrc }

85 Rbrc }

86 VOIDsym void

87 MAINsym main

88 Lpar (

89 Rpar )

90 Lbrc {

91 INTsym int

92 IDENT i

93 COMMA ,

94 IDENT a

95 COMMA ,

96 IDENT b

97 COMMA ,

98 IDENT c

99 SEMICOLON ;

100 SCANFsym scanf

101 Lpar (

102 IDENT a

103 COMMA ,

104 IDENT b

105 COMMA ,

106 IDENT c

107 Rpar )

108 SEMICOLON ;

109 IFsym if

110 Lpar (

111 IDENT a

112 GT >

113 NUMBER 10

114 Rpar )

115 Lbrc {

116 IDENT fun1

117 Lpar (

118 IDENT a

119 Rpar )

120 SEMICOLON ;

121 DOsym do

122 Lbrc {

123 IDENT a

124 BECOMES =

125 IDENT a

126 MINUS -

127 NUMBER 1

128 SEMICOLON ;

129 Rbrc }

130 WHILEsym while

131 Lpar (

132 IDENT a

133 GT >

134 NUMBER 5

135 Rpar )

136 Rbrc }

137 ELSEsym else

138 Lbrc {

139 IDENT a

140 BECOMES =

141 IDENT fun2

142 Lpar (

143 IDENT b

144 Rpar )

145 SEMICOLON ;

146 FORsym for

147 Lpar (

148 IDENT i

149 BECOMES =

150 ZERO 0

151 SEMICOLON ;

152 IDENT i

153 LESS <

154 NUMBER 3

155 SEMICOLON ;

156 IDENT i

157 BECOMES =

158 IDENT i

159 PLUS +

160 NUMBER 1

161 Rpar )

162 Lbrc {

163 PRINTFsym printf

164 Lpar (

165 IDENT a

166 Rpar )

167 SEMICOLON ;

168 IDENT a

169 BECOMES =

170 IDENT a

171 PLUS +

172 NUMBER 1

173 MINUS -

174 IDENT c

175 SEMICOLON ;

176 Rbrc }

177 Rbrc }

178 IFsym if

179 Lpar (

180 IDENT b

181 GT >

182 NUMBER 10

183 Rpar )

184 Lbrc {

185 PRINTFsym printf

186 Lpar (

187 STRING "hello world!"

188 Rpar )

189 SEMICOLON ;

190 Rbrc }

191 IDENT fun3

192 Lpar (

193 IDENT c

194 Rpar )

195 SEMICOLON ;

196 Rbrc }

197 EOF

# 分析：

结果符合预期

## 1.

const int id1=+10,id2=-10;

### 应该分成 :

const

int

id1

=

+

10

,

id2

=

-

10

;

## 2.

char ide3,ide4[5];

### 应该分成 :

char

ide3

,

ide4

[

5

]

;

## 3.

void fun1(int a){a=a+1;printf(a);}

### 应该分成：

void

fun1

(

int

a

)

{

a

=

a

+

1

;

printf

(

a

)

;

## 4.

int fun2(int a){return(a+10);}

### 应该分成：

int

fun2

(

int

a

)

{

return

(

a

+

10

)

;

}

## 5.

void fun3(int a)

{

if(a>0)

{

printf(a);

fun3(a-1);

}

else

{

;

}

}

### 应该分成：

void

fun3

(

int

a

)

{

if

(

a

>

0

)

{

printf

(

a

)

;

fun3

(

a

-

1

)

;

}

else

{

;

}

}

## 6.

void main()

{

int i,a,b,c;

scanf(a,b,c);

if(a>10)

{

fun1(a);

do

{

a=a-1;

}while(a>5)

}

else

{

a=fun2(b);

for(i=0;i<3;i=i+1)

{

printf(a);

a=a+1-c;

}

}

if(b>10)

{

printf("hello world!");

}

fun3(c);

}

### 应该分成：

void

main

(

)

{

int

i

,

a

,

b

,

c

;

scanf

(

a

,

b

,

c

)

;

if

(

a

>

10

)

{

fun1

(

a

)

;

do

{

a

=

a

-

1

;

}

while

(

a

>

5

)

}

else

{

a

=

fun2

(

b

)

;

for

(

i

=

0

;

i

<

3

;

i

=

i

+

1

)

{

printf

(

a

)

;

a

=

a

+

1

-

c

;

}

}

if

(

b

>

10

)

{

printf

(

"hello world!"

)

;

}

fun3

(

c

)

;

}