Example 01

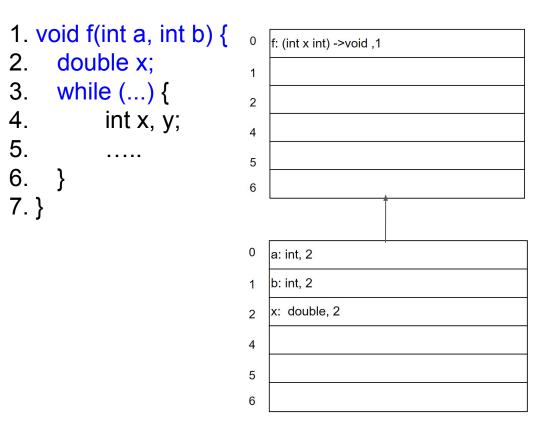
```
level = 0, bucket size= 7
```

```
    void f(int a, int b) {
    double x;
    while (...) {
    int x, y;
    .....
    }
    }
```

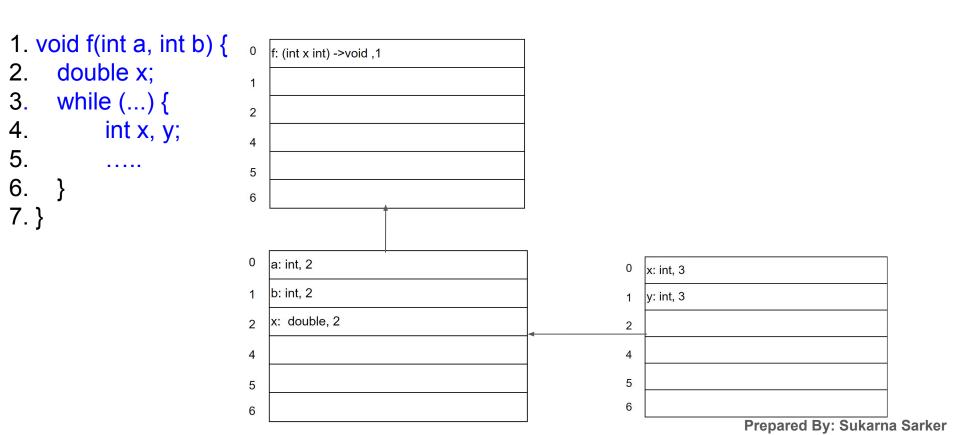
level = 1, bucket size= 7

```
1. void f(int a, int b) {
2. double x;
3. while (...) {
4. int x, y;
5. .....
6. }
7. 1
```

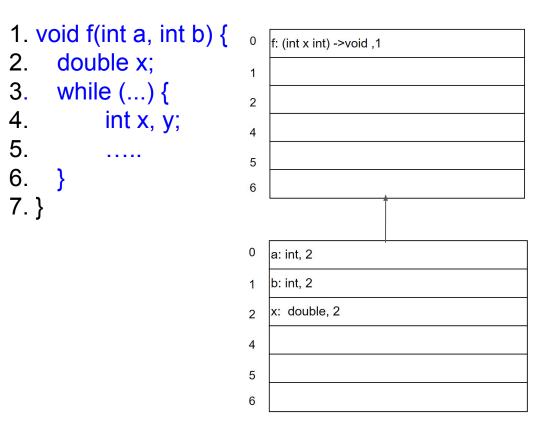
level = 2, bucket size= 7



level = 3, bucket size= 7



level = 2, bucket size= 7



level = 1, bucket size= 7

```
1. void f(int a, int b) {
2. double x;
3. while (...) {
4. int x, y;
5. ....
6. }
7. }
```

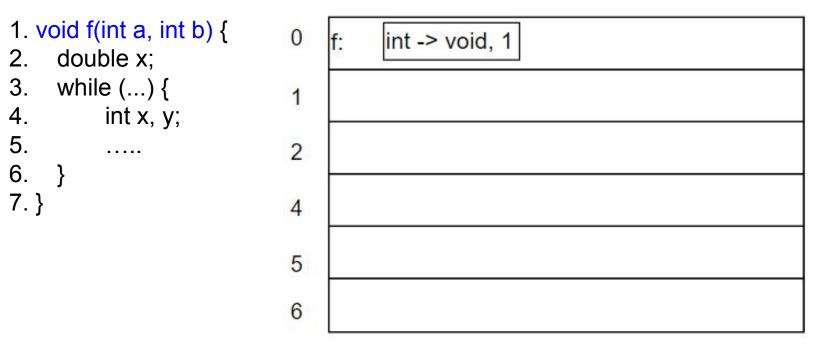
level = 0, bucket size= 7

```
    void f(int a, int b) {
    double x;
    while (...) {
    int x, y;
    .....
    }
    }
```

```
level = 0, bucket size= 7
```

```
    void f(int a, int b) {
    double x;
    while (...) {
    int x, y;
    .....
    }
    }
```

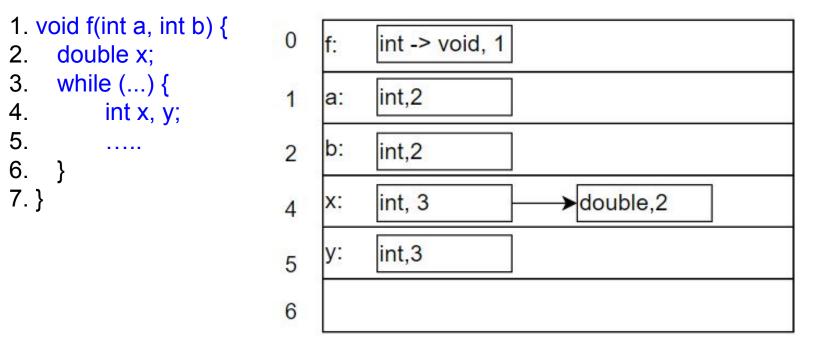
level = 1, bucket size= 7



level = 2, bucket size= 7

```
1. void f(int a, int b) {
                               0
                                         int -> void, 1
     double x;
3.
     while (...) {
                                         int,2
                                   a:
          int x, y;
5.
                                         int,2
                                   b:
6.
                                         double,2
                               4
                                   X:
                               5
                               6
```

level = 3, bucket size= 7



level = 2, bucket size= 7

```
1. void f(int a, int b) {
                                         int -> void, 1
     double x;
3.
     while (...) {
                                         int,2
                                   a:
          int x, y;
5.
                                         int,2
                                   b:
6.
                                         double,2
                               5
                               6
```

level = 1, bucket size= 7

```
1. void f(int a, int b) {
                                          int -> void, 1
     double x;
3.
     while (...) {
                                    a:
          int x, y;
5.
                                    o:
                                    X:
                               5
                               6
```

level = 0, bucket size= 7

```
1. void f(int a, int b) {
     double x;
     while (...) {
3.
                                    a:
          int x, y;
5.
                                    o:
                                    X:
                               5
                               6
```

Example 02

```
level = 0, bucket size= 7
```

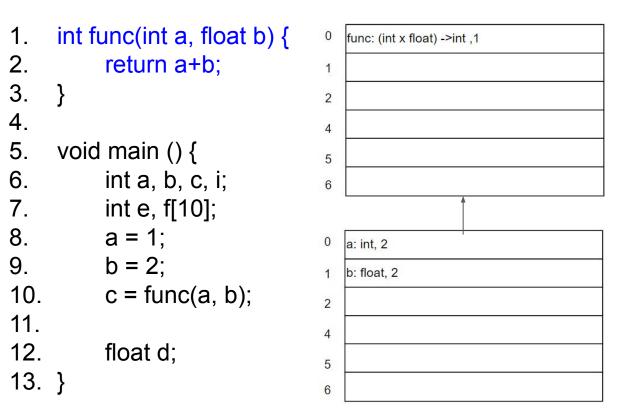
- int func(int a, float b) { return a+b; 3. 4. 5. void main () { 6.
- int a, b, c, i; 7.
 - int e, f[10];
- a = 1; 8. 9. b = 2;
- 10. c = func(a, b);11.
- 12. float d;
- 13. }

level = 1, bucket size= 7

13. }

```
int func(int a, float b) {
                                        func: (int x float) ->int ,1
2.
           return a+b;
3.
                                     2
4.
                                     4
5.
     void main () {
                                     5
6.
           int a, b, c, i;
                                     6
           int e, f[10];
7.
8.
           a = 1:
9.
           b = 2;
10.
           c = func(a, b);
11.
12.
           float d;
```

level = 2, bucket size= 7



level = 1, bucket size= 7

13. }

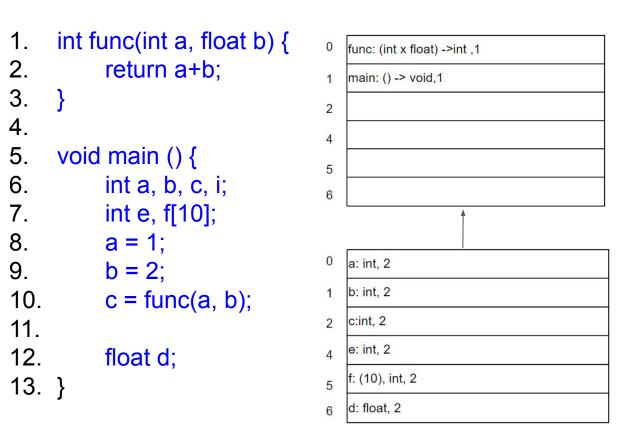
```
int func(int a, float b) {
                                        func: (int x float) ->int ,1
2.
           return a+b;
3.
                                     2
4.
                                     4
5.
     void main () {
                                     5
6.
           int a, b, c, i;
                                     6
           int e, f[10];
7.
8.
           a = 1:
9.
           b = 2;
10.
           c = func(a, b);
11.
12.
           float d;
```

level = 1, bucket size= 7

13. }

```
int func(int a, float b) {
                                         func: (int x float) ->int ,1
2.
           return a+b;
                                         main: () -> void,1
3.
4.
                                       4
5.
      void main () {
                                       5
6.
           int a, b, c, i;
                                       6
           int e, f[10];
7.
8.
           a = 1;
9.
           b = 2;
10.
           c = func(a, b);
11.
12.
           float d;
```

level = 2, bucket size= 7



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level = 1, bucket size= 7

13. }

```
int func(int a, float b) {
                                         func: (int x float) ->int ,1
2.
           return a+b;
                                         main: () -> void,1
3.
4.
                                       4
      void main () {
5.
                                       5
6.
           int a, b, c, i;
                                       6
           int e, f[10];
7.
8.
           a = 1;
9.
           b = 2;
10.
           c = func(a, b);
11.
12.
           float d;
```

```
level = 0, bucket size= 7
```

```
int func(int a, float b) {
          return a+b;
3.
4.
5.
     void main () {
6.
          int a, b, c, i;
          int e, f[10];
7.
          a = 1;
8.
9.
          b = 2;
10.
          c = func(a, b);
11.
12.
          float d;
```

13. }

```
level = 0, bucket size= 12
```

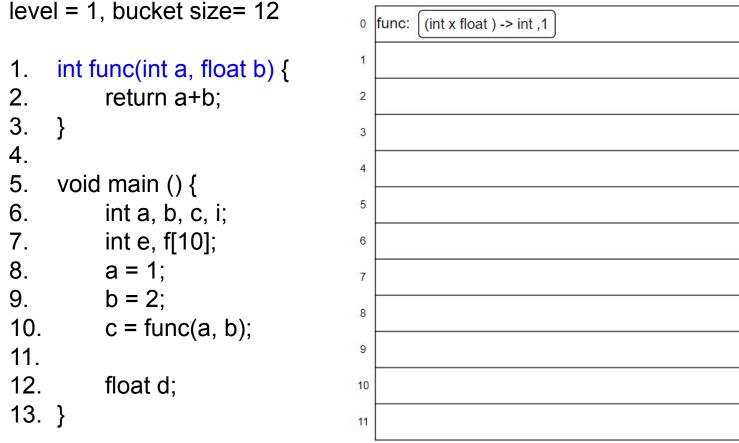
int func(int a, float b) { return a+b; 3. 4. 5. void main () { 6. int a, b, c, i; int e, f[10]; 7. a = 1; 8. 9. b = 2;10. c = func(a, b);11.

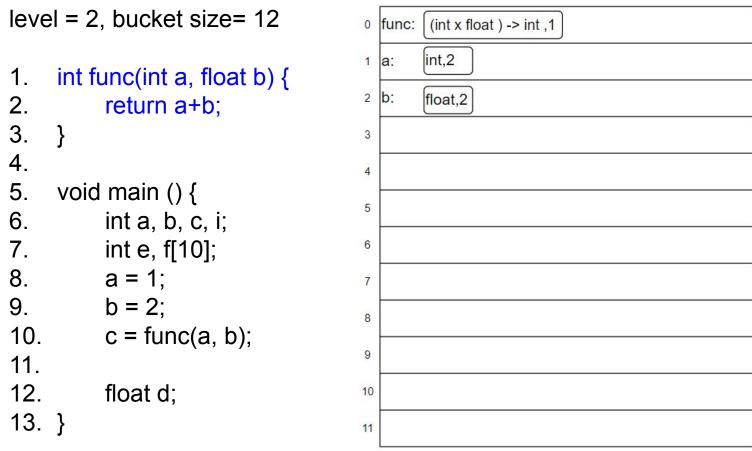
float d;

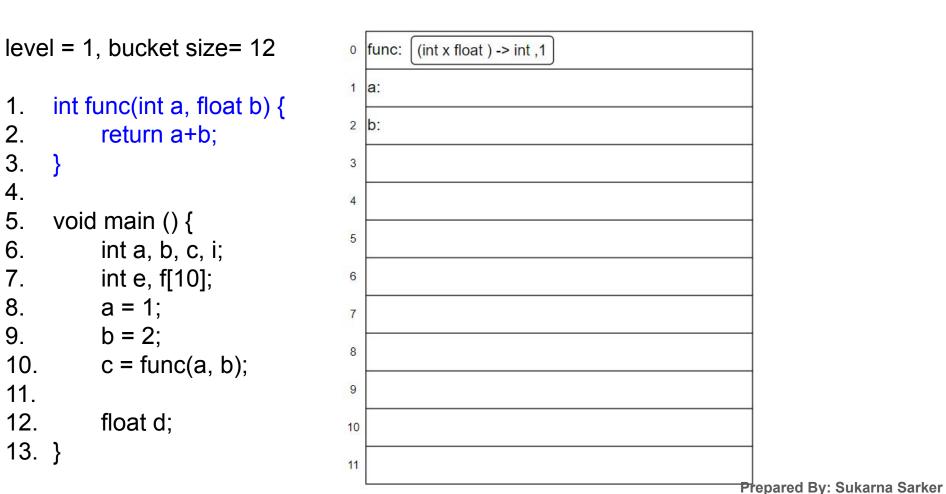
12.

13. }

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2.

3.

4.

5.

6.

7.

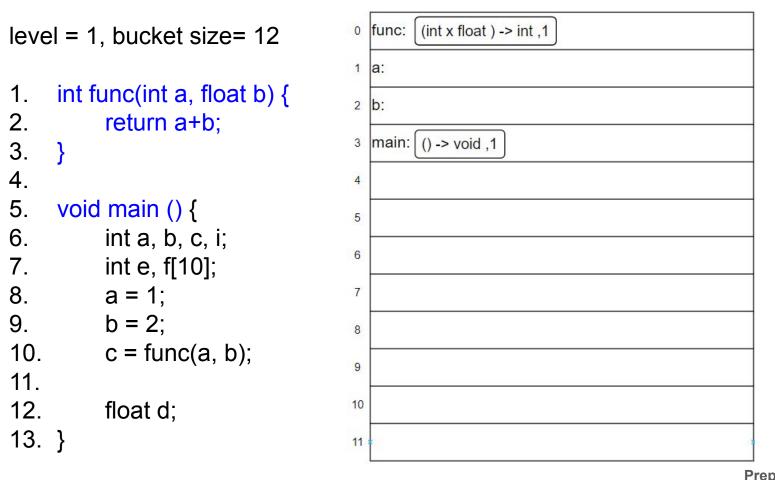
8.

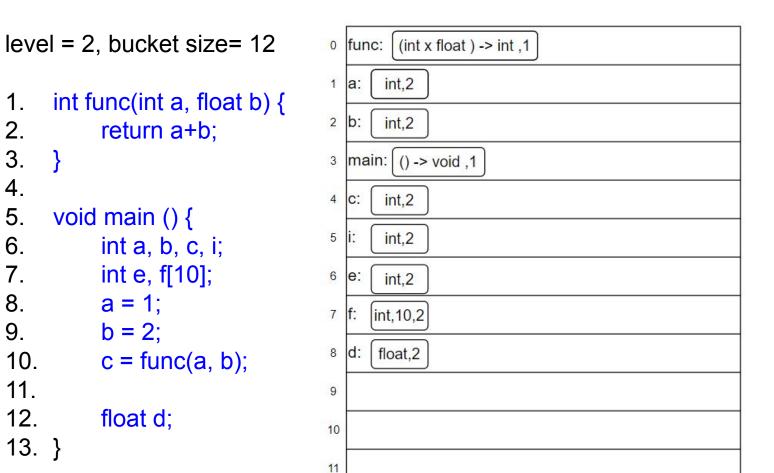
9.

10.

11.

12.





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2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13. }

