# Basic Compilation Errors and Debugging

PDS Lab Section 15

Pritam Bhattacharya

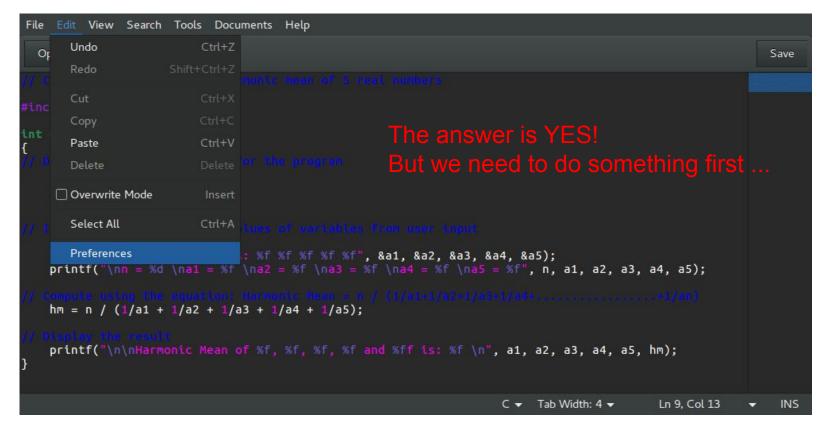
```
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int main()
                  int n:
                 float hm
                 float a1, a2, a3, a4, a5;
                  n = 5:
                  scanf("Enter 5 real numbers: %f %f %f %f %f", &a1, &a2, &a3, &a4, &a5);
                  printf("\n = %d \n = %f \n =
                  hm = n / (1/a1 + 1/a2 + 1/a3 + 1/a4 + 1/a5);
                  printf("\n\nHarmonic Mean of %f, %f, %f, %f and %ff is: %f \n", a1, a2, a3, a4, a5, hm);
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```

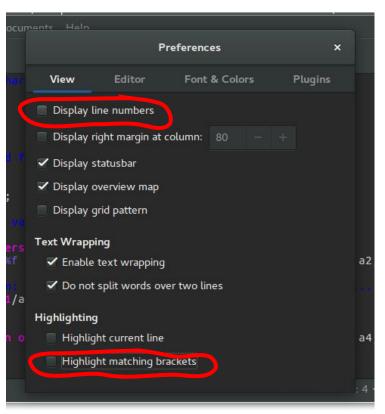
```
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pritam@pritam-HP-Notebook:~/Dropbox/IIT-KGP Courses & Seminars/PDS Lab Section 15 (Autumn 2018)
 gcc harmonic mean.c
harmonic_mean.c: In function 'main':
harmonic_mean.c:10:5: error: expected '=', ',', ';', 'asm' or '__attribute__' before 'float'
     float a1, a2, a3, a4, a5;
harmonic_mean.c:18:5: error: 'hm' undeclared (first use in this function)
    hm = n / (1/a1 + 1/a2 + 1/a3 + 1/a4 + 1/a5);
harmonic_mean.c:18:5: note: each undeclared identifier is reported only once for each function
it appears in
pritam@pritam-HP-Notebook:~/Dropbox/IIT-KGP Courses & Seminars/PDS Lab Section 15 (Autumn 2018)
```

Compilation fails - it says that we have 3 errors in our code!!

```
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          pritam@pritam-HP-Notebook: ~ ×
pritam@pritam-HP-Notebook:~/Dropbox/IIT-KGP Courses & Seminars/PDS Lab Section 15 (Autumn 2018)
 gcc harmonic mean.c
harmonic_mean.cIn function 'main':
harmonic_mean.(:10.5: error: expected '=', ',', ';', 'asm' or '__attribute__' before 'float'
     float a1, a2, a3, a4, a5;
harmonic_mean.(:18:5: error: 'hm' undeclared (first use in this function)
     hm = n / (1/a1 + 1/a2 + 1/a3 + 1/a4 + 1/a5);
harmonic_mean. (:18.5: note: each undeclared identifier is reported only once for each function
it appears in
pritam@pritam-HP-Notebook:~/Dropbox/IIT-KGP Courses & Seminars/PDS Lab Section 15 (Autumn 2018)
```

Note the line numbers (circled in red) mentioned in each error message - Can we use these line numbers to help ourselves debug the code?





We need to go to Preferences > View and then check the two options circled in red, which are:

- i) Display line numbers
- ii) Highlight matching brackets

```
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Save
      3 #include<stdio.h>
     5 int main()
      6 {
                                int n:
                                float hm
 10
                                 float a1, a2, a3, a4, a5;
11
 12
 13
                                 n = 5:
 14
                                 scanf("Enter 5 real numbers: %f %f %f %f %f", &a1, &a2, &a3, &a4, &a5);
                                 printf("\n = %d \n = %f \n =
 15
 16
17
18
                                 hm = n / (1/a1 + 1/a2 + 1/a3 + 1/a4 + 1/a5);
19
20
                                 printf("\n\nHarmonic Mean of %f, %f, %f, %f and %ff is: %f \n", a1, a2, a3, a4, a5, hm);
21
22 }
                                                                                                                                                                                                                                                                                                                                                                    Tab Width: 4 ▼
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```

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                   nt main()
      8
                                 int n:
     9
                                  float hm
10
                                  float a1, a2, a3, a4, a5;
11
12
13
                                  n = 5:
14
                                  scanf("Enter 5 real numbers: %f %f %f %f %f", &a1, &a2, &a3, &a4, &a5);
                                  printf("\n = %d \n = %f \n =
16
17
18
                                  hm = n / (1/a1 + 1/a2 + 1/a3 + 1/a4 + 1/a5);
19
20
21
                                  printf("\n\nHarmonic Mean of %f, %f, %f, %f and %ff is: %f \n", a1, a2, a3, a4, a5, hm);
22
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```

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          pritam@pritam-HP-Notebook: ~ ×
pritam@pritam-HP-Notebook:~/Dropbox/IIT-KGP Courses & Seminars/PDS Lab Section 15 (Autumn 2018)
 gcc harmonic mean.c
harmonic_mean.cr In function 'main':
harmonic_mean.(:10.5: error: expected '=', ',', ';', 'asm' or '__attribute__' before 'float'
     float a1, a2, a3, a4, a5;
harmonic_mean.(:18:5: error: 'hm' undeclared (first use in this function)
     hm = n / (1/a1 + 1/a2 + 1/a3 + 1/a4 + 1/a5);
harmonic_mean. (:18:5: note: each undeclared identifier is reported only once for each function
it appears in
pritam@pritam-HP-Notebook:~/Dropbox/IIT-KGP Courses & Seminars/PDS Lab Section 15 (Autumn 2018)
```

Note the line numbers (circled in red) mentioned in each error message -Let us start by examining the earliest line (line 10) which has an error ...

```
File Edit View Search Tools Documents Help
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                                                                                                              Save
 3 #include<stdio.h>
 5 int main()
 6 {
       int n:
       float hm
       float a1, a2, a3, a4, a5;
10
12
13
       n = 5:
14
       scanf("Enter 5 real numbers: %f %f %f %f %f", &a1, &a2, &a3, &a4, &a5);
15
      printf("\nn = %d \na1 = %f \na2 = %f \na3 = %f \na4 = %f \na5 = %f", n, a1, a2, a3, a4, a5);
16
17
18
      hm = n / (1/a1 + 1/a2 + 1/a3 + 1/a4 + 1/a5);
19
20
21
       printf("\n\nHarmonic Mean of %f, %f, %f, %f and %ff is: %f \n", a1, a2, a3, a4, a5, hm);
22 }
                                                                      C ▼ Tab Width: 4 ▼
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                                                                                                               INS
```

```
File Edit View Search Tools Documents Help
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                                                                                                              Save
 3 #include<stdio.h>
 5 int main()
 6 {
       int n:
      float hm
       float a1, a2, a3, a4, a5;
10
11
12
13
       n = 5:
14
       scanf("Enter 5 real numbers: %f %f %f %f %f", &a1, &a2, &a3, &a4, &a5);
15
      printf("\nn = %d \na1 = %f \na2 = %f \na3 = %f \na4 = %f \na5 = %f", n, a1, a2, a3, a4, a5);
16
17
18
      hm = n / (1/a1 + 1/a2 + 1/a3 + 1/a4 + 1/a5);
19
20
21
       printf("\n\nHarmonic Mean of %f, %f, %f, %f and %ff is: %f \n", a1, a2, a3, a4, a5, hm);
22 }
                                                                      C ▼ Tab Width: 4 ▼
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                                                                                                               INS
```

```
Edit View Search Tools Documents Help
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                                                                                                             Save
 3 #include<stdio.h>
 5 int main()
 6 {
       int n:
       float hm:
       float a1, a2, a3, a4, a5;
11
12
13
       n = 5;
14
       scanf("Enter 5 real numbers: %f %f %f %f %f", &a1, &a2, &a3, &a4, &a5);
15
       printf("\nn = %d \na1 = %f \na2 = %f \na3 = %f \na4 = %f \na5 = %f", n, a1, a2, a3, a4, a5);
16
17
18
       hm = n / (1/a1 + 1/a2 + 1/a3 + 1/a4 + 1/a5);
19
20
21
       printf("\n\nHarmonic Mean of %f, %f, %f, %f and %ff is: %f \n", a1, a2, a3, a4, a5, hm);
22 }
                                                                          Tab Width: 4 ▼
                                                                                             Ln 9, Col 14
                                                                                                              INS
```

```
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                                                pritam@pritam-HP-Notebook: ~/Dropbox/IIT-KG... ×
pritam@pritam-HP-Notebook:~/Dropbox/IIT-KGP Courses & Seminars/PDS Lab Section 15 (Autumn 2018)
$ qcc harmonic mean.c
harmonic_mean.c: In function 'main':
harmonic_mean. (:10:5: error: expected '=', ',', ';', 'asm' or '__attribute__' before 'float'
     float a1, a2, a3, a4, a5;
harmonic_mean.c:18:5: error: 'hm' undeclared (first use in this function)
     hm = n / (1/a1 + 1/a2 + 1/a3 + 1/a4 + 1/a5);
harmonic_mean.c:18:5: note: each undeclared identifier is reported only once for each function
it appears in
pritam@pritam-HP-Notebook:~/Dropbox/IIT-KGP Courses & Seminars/PDS Lab Section 15 (Autumn 2018)
```

Lessons to be learnt from this exercise --

- i) Always start by examining the earliest / topmost line which has an error
- ii) Sometimes the error might actually be in the line preceding the line number shown

```
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 qcc harmonic mean.c
pritam@pritam-HP-Notebook:~/Dropbox/IIT-KGP Courses & Seminars/PDS Lab Section 15 (Autumn 2018)
 ./a.out
 .5 3.6 1.8 4.9 5.3
= 0.000000
a2 = 0.000000
3 = 0.000000
a4 = 0.000000
a5 = 0.000000
Harmonic Mean of 0.000000, 0.000000, 0.000000, 0.000000 and 0.000000f is: 0.000000
pritam@pritam-HP-Notebook:~/Dropbox/IIT-KGP Courses & Seminars/PDS Lab Section 15 (Autumn 2018)
```

Program compiles successfully now - the other 2 errors have disappeared as well!!

```
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pritam@pritam-HP-Notebook:~/Dropbox/IIT-KGP Courses & Seminars/PDS Lab Section 15 (Autumn 2018)
 qcc harmonic mean.c
pritam@pritam-HP-Notebook:~/Dropbox/IIT-KGP Courses & Seminars/PDS Lab Section 15 (Autumn 2018)
 ./a.out
 .5 3.6 1.8 4.9 5.3
  = 0.000000
  = 0.000000
  = 0.000000
a4 = 0.000000
a5 = 0.000000
Harmonic Mean of 0.000000, 0.000000, 0.000000, 0.000000 and 0.000000f is: 0.000000
pritam@pritam-HP-Notebook:~/Dropbox/IIT-KGP Courses & Seminars/PDS Lab Section 15 (Autumn 2018)
```

NB - Though the program compiles successfully now, it is still not producing the correct output!!

### Using printf statements to detect logical errors ...

```
File Edit View Search Tools Documents Help
  Open ▼
 3 #include<stdio.h>
 5 int main()
 6 {
      int n:
      float hm:
      float a1, a2, a3, a4, a5;
      n = 5:
      scanf("Enter 5 real numbers: %f %f %f %f %f", &a1, &a2, &a3, &a4, &a5);
      printf("\nn = %d \na1 = %f \na2 = %f \na3 = %f \na4 = %f \na5 = %f", n, a1, a2, a3, a4, a5);
10
17
      hm = n / (1/a1 + 1/a2 + 1/a3 + 1/a4 + 1/a5);
19
20
      printf("\n\nHarmonic Mean of %f, %f, %f, %f and %ff is: %f \n", a1, a2, a3, a4, a5, hm);
22 }
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```

Use printf statements to print out values read in from user and also intermediate computation results.

# Using printf statements to detect logical errors ...

```
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                                                pritam@pritam-HP-Notebook: ~/Dropbox/IIT-KG... ×
pritam@pritam-HP-Notebook:~/Dropbox/IIT-KGP Courses & Seminars/PDS Lab Section 15 (Autumn 2018)
 qcc harmonic mean.c
pritam@pritam-HP-Notebook:~/Dropbox/IIT-KGP Courses & Seminars/PDS Lab Section 15 (Autumn 2018)
 ./a.out
 .5 3.6 1.8 4.9 5.3
  = 0.000000
a2 = 0.000000
  = 0.000000
  = 0.000000
a5 = 0.000000
Harmonic Mean of 0.000000, 0.000000, 0.000000, 0.000000 and 0.000000f is: 0.000000
pritam@pritam-HP-Notebook:~/Dropbox/IIT-KGP Courses & Seminars/PDS Lab Section 15 (Autumn 2018)
```

By using the *printf* statement on line 15, we realize that the user input has not been stored properly!!

# Using printf statements to detect logical errors ...

```
File Edit View Search Tools Documents Help
              Open ▼
       3 #include<stdio.h>
       5 int main()
       6 {
                                         int n:
                                        float hm:
                                        float a1, a2, a3, a4, a5;
                                        scanf(\text{Enter 5 real numbers: \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \(
                                       hm = n / (1/a1 + 1/a2 + 1/a3 + 1/a4 + 1/a5);
19
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21
                                        printf("\n\nHarmonic Mean of %f, %f, %f, %f and %ff is: %f \n", a1, a2, a3, a4, a5, hm);
22 }
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```

By using the *printf* statement on line 15, we realize that the user input has not been stored properly!!

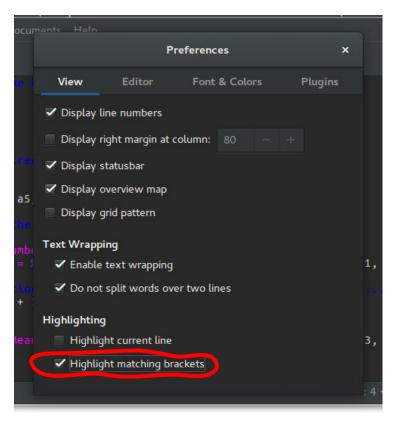
```
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           Æ
                                                                                                           Save
 3 #include<stdio.h>
 5 int main()
6 {
      int n:
      float hm:
      float a1, a2, a3, a4, a5;
      n = 5:
      scanf("Enter 5 real numbers: %f %f %f %f %f", &a1, &a2, &a3, &a4, &a5);
      printf("\n = %d \na1 = %f \na2 = %f \na4 = %f \na5 = %f", n, a1, a2, a3, a4, a5);
16
17
      hm = n / (1/a1 + 1/a2 + 1/a3 + 1/a4 + 1/a5);
18
19
20
      printf("\n\nHarmonic Mean of %f, %f, %f, %f and %ff is: %f \n", a1, a2, a3, a4, a5, hm);
22 }
                                                                        Tab Width: 4 ▼
                                                                                           Ln 9, Col 14
```

```
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            Æ
                                                                                                                          Save
 3 #include<stdio.h>
 5 int main()
 6 {
       int n:
       float hm:
       float a1, a2, a3, a4, a5;
       n = 5:
       scanf("Enter 5 real numbers: %f %f %f %f %f", &a1, &a2, &a3, &a4, &a5);
       printf("\nn = \frac{\%}{n} \na1 = \frac{\%}{n} \na2 = \frac{\%}{n} \na3 = \frac{\%}{n} \na4 = \frac{\%}{n} \na5 = \frac{\%}{n}, n, a1, a2, a3, a4, a5);
16
17
       hm = n / (1/a1 + 1/a2 + 1/a3 + 1/a4 + 1/a5);
18
19
20
       printf("\n\nHarmonic Mean of %f, %f, %f, %f and %ff is: %f \n", a1, a2, a3, a4, a5, hm);
22 }
                                                                                   Tab Width: 4 ▼
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```

```
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                                                                                                                          Save
 3 #include<stdio.h>
 5 int main()
 6 {
       int n:
       float hm:
       float a1, a2, a3, a4, a5;
       n = 5:
       scanf("Enter 5 real numbers: %f %f %f %f %f", &a1, &a2, &a3, &a4, &a5);
       printf("\nn = \frac{\%}{n} \na1 = \frac{\%}{n} \na2 = \frac{\%}{n} \na3 = \frac{\%}{n} \na4 = \frac{\%}{n} \na5 = \frac{\%}{n}, n, a1, a2, a3, a4, a5);
16
17
       hm = n / (1/a1 + 1/a2 + 1/a3 + 1/a4 + 1/a5);
18
19
20
       printf("\n\nHarmonic Mean of %f, %f, %f, %f and %ff is: %f \n", a1, a2, a3, a4, a5, hm);
22 }
                                                                                   Tab Width: 4 ▼
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```

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      3 #include<stdio.h>
      5 int main()
     6 {
                                     int n:
                                     float hm:
                                     float a1, a2, a3, a4, a5;
                                      n = 5:
                                      scanf("Enter 5 real numbers: %f %f %f %f %f", &a1, &a2, &a3, &a4, &a5);
                                      printf("\nn = \frac{1}{2}\na1 = \frac{1}{2}f\na2 = \frac{1}{2}f\na4 = \frac{1}{2}f\na5 = \frac{1}{2}
16
17
                                      hm = n / (1/a1 + 1/a2 + 1/a3 + 1/a4 + 1/a5);
18
19
20
                                      printf("\n\nHarmonic Mean of %f, %f, %f, %f and %ff is: %f \n", a1, a2, a3, a4, a5, hm);
22 }
                                                                                                                                                                                                                                                                                                                                                                                                                     Tab Width: 4 ▼
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```

#### Checking for Matching Parentheses ...



Recall that we went to Preferences > View and then checked the "Highlight matching Brackets" option

### Checking for Matching Parentheses ...

```
File Edit View Search Tools Documents Help
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    3 #include<stdio.h>
    5 int main()
     6
                                 int n:
                                 float hm:
                                 float a1, a2, a3, a4, a5;
12
                                 n = 5:
                                 scanf("Enter 5 real numbers: %f %f %f %f %f", &a1, &a2, &a3, &a4, &a5);
                                 printf("\n = %d \n = %f \n =
16
17
18
                                hm = n / (1/a1 + 1/a2 + 1/a3 + 1/a4 + 1/a5);
19
20
21
                                 printf("\n\nHarmonic Mean of %f, %f, %f, %f and %ff is: %f \n", a1, a2, a3, a4, a5, hm);
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### Checking for Matching Parentheses ...

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           Open ▼ | I+
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     3 #include<stdio.h>
    5 int main()
     6 {
                                int n;
                                float hm:
10
                                float a1, a2, a3, a4, a5;
11
12
13
                                n = 5:
14
                                scanf("Enter 5 real numbers: %f %f %f %f %f", &a1, &a2, &a3, &a4, &a5);
15
                                 printf("\n = %d \n = %f \n =
16
17
                                hm = n / (1/a1 + 1/a2 + 1/a3 + 1/a4 + 1/a5);
18
19
20
21
                                 printf("\n\nHarmonic Mean of %f, %f, %f, %f and %ff is: %f \n", a1, a2, a3, a4, a5, hm);
22 }
                                                                                                                                                                                                                                                                                                                                                                    Tab Width: 4 ▼
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ln 18, Col 14
```