

main.cpp



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Output

Clear

```
1  //TEST CASE 1 SEM1//
2
3  #include <iostream>
4  using namespace std;
5
6  int main()
7  {
8      float g1[8] = {10, 8, 9, 7, 9.5, 8.5, 7, 6.5};
9      int c1[8] = {2, 3, 1, 2, 4, 3, 2, 1};
10
11     float m = 0;
12     int n = 0;
13     float spi1 = 0;
14
15     for (int i = 0; i < 8; ++i)
16     {
17         m += g1[i] * c1[i];
18         n += c1[i];
19     }
20
21     spi1 = m / n;
22     cout << "The Semester Performance Index (SPI) of sem1 is: " << spi1 << endl;
23
24     return 0;
25 }
26
```

/tmp/aZhCXXaEhm.o

The Semester Performance Index (SPI) of sem1 is: 8.38889

=== Code Execution Successful ===

main.cpp



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```
1  //TEST CASE 1 SEM2//
2
3  #include <iostream>
4  using namespace std;
5
6  int main()
7  {
8      float g2[8] = {9, 8, 7, 10, 9.5, 7.5, 8.5, 7};
9      int c2[8] = {3, 3, 2, 1, 1, 2, 2, 3};
10
11     float m = 0;
12     int n = 0;
13     float spi2 = 0;
14
15     for (int i = 0; i < 8; ++i)
16     {
17         m += g2[i] * c2[i];
18         n += c2[i];
19     }
20
21     spi2 = m / n;
22     cout << "The Semester Performance Index (SPI) of sem2 is: " << spi2 << endl;
23
24     return 0;
25 }
26
```

/tmp/N8fh12sxSs.o

The Semester Performance Index (SPI) of sem2 is: 8.08823

=== Code Execution Successful ===

main.cpp



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Output

Clear

```
1  //TEST CASE 1 CPI//
2
3  #include <iostream>
4  using namespace std;
5
6  int main()
7  {
8      float spi[2] = {8.38, 8.08};
9      int s = 2;
10
11      float m = 0;
12      float cpi = 0;
13
14      for (int i = 0; i < 2; ++i)
15      {
16          m += spi[i];
17      }
18
19      cpi = m / s;
20
21      cout<< "The Cumulative Performance Index (CPI) is: " << cpi << endl;
22
23      return 0;
24  }
25
26  |
```

/tmp/IGudN4fVv7.o
The Cumulative Performance Index (CPI) is: 8.23

=== Code Execution Successful ===

main.cpp



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Output

Clear

```
1  //TEST CASE 2 SPI SEM 1//
2
3  #include <iostream>
4  using namespace std;
5
6  int main()
7  {
8      float g1[8] = {9, 8, 7, 6, 5, 4, 3, 2};
9      int c1[8] = {3, 3, 3, 3, 3, 3, 3, 3};
10     float m = 0;
11     int n = 0;
12     float spi1 = 0;
13
14     for (int i = 0; i < 8; ++i)
15     {
16         m += g1[i] * c1[i];
17         n += c1[i];
18     }
19
20     spi1 = m / n;
21     cout << "The Semester Performance Index (SPI) of sem1 is: " << spi1 << endl;
22
23     return 0;
24 }
25
```

/tmp/7Pq7Nc1yBX.o

The Semester Performance Index (SPI) of sem1 is: 5.5

=== Code Execution Successful ===

main.cpp



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Output

Clear

```
1  //TEST CASE 2 CPI//
2
3  #include <iostream>
4  using namespace std;
5
6  int main()
7  {
8      float spi[2] = {5.5};
9      int s = 1;
10
11     float m = 0;
12     float cpi = 0;
13
14     for (int i = 0; i < 2; ++i)
15     {
16         m += spi[i];
17     }
18
19     cpi = m / s;
20
21     cout<< "The Cumulative Performance Index (CPI) is: " << cpi << endl;
22
23     return 0;
24 }
25
26 |
```

/tmp/gz29UZYGoE.o
The Cumulative Performance Index (CPI) is: 5.5

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main.cpp



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```
1  //TEST CASE 3 SPI SEM 1//
2
3  #include <iostream>
4  using namespace std;
5
6  int main()
7  {
8      float g1[8] = {8, 7, 6, 5, 4, 3, 2, 1};
9      int c1[8] = {2, 2, 2, 2, 2, 2, 2, 2};
10     float m = 0;
11     int n = 0;
12     float spi1 = 0;
13
14     for (int i = 0; i < 8; ++i)
15     {
16         m += g1[i] * c1[i];
17         n += c1[i];
18     }
19
20     spi1 = m / n;
21     cout << "The Semester Performance Index (SPI) of sem1 is: " << spi1 << endl;
22
23     return 0;
24 }
25
```

/tmp/DwHtm2umz7.o

The Semester Performance Index (SPI) of sem1 is: 4.5

=== Code Execution Successful ===

main.cpp



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Output

Clear

```
1  //TEST CASE 3 SPI SEM 2//
2
3  #include <iostream>
4  using namespace std;
5
6  int main()
7  {
8      float g2[8] = {9, 8, 7, 6, 5, 4, 3, 2};
9      int c2[8] = {1, 1, 1, 1, 1, 1, 1, 1};
10     float m = 0;
11     int n = 0;
12     float spi2 = 0;
13
14     for (int i = 0; i < 8; ++i)
15     {
16         m += g2[i] * c2[i];
17         n += c2[i];
18     }
19
20     spi2 = m / n;
21     cout << "The Semester Performance Index (SPI) of sem2 is: " << spi2 << endl;
22
23     return 0;
24 }
25 |
```

/tmp/3QTIab30uR.o

The Semester Performance Index (SPI) of sem2 is: 5.5

=== Code Execution Successful ===

main.cpp



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Output

Clear

```
1  //TEST CASE 3 CPI//
2
3  #include <iostream>
4  using namespace std;
5
6  int main()
7  {
8      float spi[2] = {4.5, 5.5};
9      int s = 2;
10
11     float m = 0;
12     float cpi = 0;
13
14     for (int i = 0; i < 2; ++i)
15     {
16         m += spi[i];
17     }
18
19     cpi = m / s;
20
21     cout<< "The Cumulative Performance Index (CPI) is: " << cpi << endl;
22
23     return 0;
24 }
25
26 |
```

```
/tmp/Qu6Mgc8eUz.o
The Cumulative Performance Index (CPI) is: 5
```

```
=== Code Execution Successful ===
```


main.cpp



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Output

Clear

```
1  //TEST CASE 4 SPI and CPI SEM 1//
2
3  #include <iostream>
4  using namespace std;
5
6  int main()
7  {
8      float g1[8] = {9, 8, 7, 6, 5, 4, 3, 2};
9      int c1[8] = {0, 0, 0, 0, 0, 0, 0, 0};
10     float m = 0;
11     int n = 0;
12     float spi1 = 0;
13
14     for (int i = 0; i < 8; ++i)
15     {
16         m += g1[i] * c1[i];
17         n += c1[i];
18     }
19
20     spi1 = m / n;
21
22     if(spi1>0)
23     {
24         cout << "The Semester Performance Index (SPI) of sem1 is: " << spi1 << endl;
25     }
26     else
27     {
28         cout<<"error in finding both spi and cpi";
29     }
30
31     return 0;
32 }
```

```
/tmp/N5iNobPjoR.o
error in finding both spi and cpi

=== Code Execution Successful ===
```


main.cpp



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Output

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```
1  //TEST CASE 5 SPI and CPI SEM 1//
2
3  #include <iostream>
4  using namespace std;
5
6  int main()
7  {
8      float g1[8] = {-9, -8, -7, -6, -5, -4, -3, -2};
9      int c1[8] = {1, 1, 1, 1, 1, 1, 1, 1};
10     float m = 0;
11     int n = 0;
12     float spi1 = 0;
13
14     for (int i = 0; i < 8; ++i)
15     {
16         m += g1[i] * c1[i];
17         n += c1[i];
18     }
19
20     spi1 = m / n;
21
22     if(spi1>0)
23     {
24         cout << "The Semester Performance Index (SPI) of sem1 is: " << spi1 << endl;
25     }
26     else
27     {
28         cout<<"error in finding both spi and cpi";
29     }
30
31     return 0;
32 }
```

```
/tmp/t36u0Re73s.o
error in finding both spi and cpi

=== Code Execution Successful ===
```