

Course: IT202-010-S2025

Assignment: IT202 PHP Problems

Student: Justin C. (jjc88)

Status: Submitted | Worksheet Progress: 100.00%

Potential Grade: 10.00/10.00 (100.00%)

Received Grade: 0.00/10.00 (0.00%)

Grading Link: <https://learn.ethereallab.app/assignment/v3/IT202-010-S2025/it202-php-problems/grading/jjc88>

# Instructions

1. Ensure you read all instructions and objectives before starting.
2. Create a new branch from dev called M2-Homework
  1. `git checkout dev` (ensure proper starting branch)
  2. `git pull origin dev` (ensure history is up to date)
  3. `git checkout -b M2-Homework` (create and switch to branch)
3. Copy the template code from here: [GitHub Repository - M2 Homework](#)
  - It includes Problems 1-4 and `base.php`. Put all into an M2 folder or similar inside your `public_html`
  - Immediately record to history
    - ☐ `git add public_html`
    - ☐ `git commit -m "adding M2 HW baseline files"`
    - ☐ `git push origin M2-Homework`
    - ☐ Create a Pull Request from M2-Homework to dev and keep it open
4. Fill out the below worksheet
  - Each Problem requires the following as you work
    - ☐ Ensure there's a comment with your UCID, date, and brief summary of how the problem was solved
    - ☐ Initial outline/plan of how you'll solve it via comments (add/commit after this stage)
    - ☐ Code solution (add/commit periodically as needed)
5. Once finished, click "Submit and Export"
6. Locally add the generated PDF to a folder of your choosing inside your repository folder and move it to Github
  1. `git add .`
  2. `git commit -m "adding PDF"`
  3. `git push origin M2-Homework`
  4. On Github merge the pull request from M2-Homework to dev
  5. On Github create a pull request from dev to prod and immediately merge. (This will trigger the prod deploy to make the heroku prod links work)
7. Upload the same PDF to Canvas
8. Sync Local
  1. `git checkout dev`
  2. `git pull origin dev`

## Section #1: ( 2 pts ) Problem 1 - Odds

### Task #1 ( 2 pts.) - Edit the `printOdds` function to output odd values

### Combo Task:

**Weight: 100%**

**Objective:** Edit the `printOdds` function to output odd values of the array

### Details:

- Only make edits where noted via provided comments
- Challenge: Print odd values only in a single line separated by commas
- Step 1: sketch out plan using comments (includeucid and date)
- Step 2: Add/commit your outline of comments (required for full credit)
- Step 3: Add code to solve the problem (add/commit as needed)

## Item:#1

**Weight: 40%**

### Details:

Two screenshots are expected

1. Snippet of relevant code showing solution (with ucid/date comment)
2. Full output of executing the program (visit the proper file on Heroku dev after a manual deploy)

### ≡ Image Prompt

**Solution code**

**Massachusetts Probation 3, Page 1369991 [2023-03-03 10:02:39]**  
 PROBATIONER: JAMES EARL RAY, JR. (DOB: 01/01/1942) IS A MALE, RACE: WHITE, HEIGHT: 5'10", WEIGHT: 175 LBS, HAIR: BROWN, EYES: BROWN, BORN: 01/01/1942, BIRTHPLACE: MEMPHIS, TENN. (USA).  
 PROBATIONER'S CURRENT ADDRESS: 1400 N. 1ST ST., APT. 101, CHICAGO, ILL. 60642.  
 PROBATIONER'S CURRENT EMPLOYMENT: SELF-EMPLOYED, FREELANCE WRITER.  
 PROBATIONER'S CURRENT EDUCATION: HIGH SCHOOL GRADUATE, CHICAGO PUBLIC SCHOOLS.  
 PROBATIONER'S CURRENT MARITAL STATUS: SINGLE.  
 PROBATIONER'S CURRENT RELIGIOUS AFFILIATION: NONE.  
 PROBATIONER'S CURRENT DRUG USE: NONE.  
 PROBATIONER'S CURRENT ALCOHOL USE: NONE.  
 PROBATIONER'S CURRENT MENTAL HEALTH STATUS: STABLE.  
 PROBATIONER'S CURRENT PHYSICAL HEALTH STATUS: STABLE.  
 PROBATIONER'S CURRENT CRIMINAL RECORD: NO RECORD.

Heroku screenshot



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## Item:#2

Weight: 20%

Details:

- Direct link to the file in the homework related branch from Github (should end in `.php`)
- Direct link to the file on Heroku Prod (Just grab the base prod url and manually enter the path to the file)

### Url Prompt

URL #1

<https://jjc88-it202-010-prod-b44e1de4d69c.herokuapp.com/M2/problem1.php>



URL

<https://jjc88-it202-010-prod-b44e1d>



URL #2

[https://github.com/juicejoose/jjc88-it202-010/M2-Homework/public\\_html/M2/problem1.php](https://github.com/juicejoose/jjc88-it202-010/M2-Homework/public_html/M2/problem1.php)



URL

<https://github.com/juicejoose/jjc88>



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## Item:#3

Weight: 40%

Details:

Briefly explain `how` the code solves the challenge (note: this isn't the same as `what` the code does)

### Text Prompt

Your Response:

This code will go through an array and check each element if its an odd number, then prints if it is. This foreach iterates through the arrays and each element. If code will check the element in the array if its odd by dividing by an even number, if it the remainder does not equal 0 it will then execute the

next. If the if statement goes through it will echo the element that is odd.



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## Section #2: ( 2 pts.) Problem 2 - Sum

Task #1 ( 2 pts.) - Edit the `sumValues` function to sum the array va

### Combo Task:

**Weight:** 100%

**Objective:** Edit the `sumValues` function to sum the array values and present them in a format with exactly two decimal places

**Details:**

- Only make edits where noted via provided comments
- Challenge 1: Sum all the values of the passed in array and assign to `total`
- Challenge 2: Have the sum be represented as a number with exactly 2 decimal
- Example: 0.1 would be shown as 0.10, 1 would be shown as 1.00, etc
- Step 1: sketch out plan using comments (include ucid and date)
- Step 2: Add/commit your outline of comments (required for full credit)
- Step 3: Add code to solve the problem (add/commit as needed)

### Item:#1

**Weight:** 40%

**Details:**

Two screenshots are expected

1. Snippet of relevant code showing solution (with ucid/date comment)
2. Full output of executing the program (visit the proper file on Heroku dev after a manual deploy)

≡ Image Prompt

Showing code p2



```
heroku deploy
```



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## Item:#2

**Weight: 20%**

**Details:**

- Direct link to the file in the homework related branch from Github (should end in `.php`)
- Direct link to the file on Heroku Prod (Just grab the base prod url and manually enter the path to the file)

## ≡ Url Prompt

URL #1

<https://jjc88-it202-010-prod-b44e1de4d69c.herokuapp.com/M2/problem2.php>



URL

<https://jjc88-it202-010-prod-b44e1d>



URL #2

[https://github.com/juicejooose/jjc88-it2021/blob/main/M2-Homework/public\\_html/M2/problem2.php](https://github.com/juicejooose/jjc88-it2021/blob/main/M2-Homework/public_html/M2/problem2.php)



URL

<https://github.com/juicej00se/jjc88>



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### Item:#3

**Weight:** 40%

**Details:**

Briefly explain `how` the code solves the challenges (note: this isn't the same as `what` the code does)

≡ **Text Prompt**

Your Response:

This code will go through the array and scan each element within. It will then add up the element into a total variable. Then the total is number formatted to the second decimal place. This code will go through the arrays and go through each element, then adding the element to the total. This code will format the total variable into only outputting to the second decimal place.



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## Section #3: ( 2 pts.) Problem 3 - Conversion

Task #1 ( 2 pts.) - Edit the `bePositive` function to make each value

### Combo Task:

**Weight:** 100%

**Objective:** Edit the `bePositive` function to make each value positive, convert it back to the original data type, and set it to the proper slot in the `output` array

**Details:**

- Only make edits where noted via provided comments
- Challenge 1: Make each value positive
- Challenge 2: Convert the values back to their original data type and assign it to the proper slot of the `output` array
- Step 1: sketch out plan using comments (include uid and date)
- Step 2: Add/commit your outline of comments (required for full credit)
- Step 3: Add code to solve the problem (add/commit as needed)

Item:#1





URL #1

<https://jjc88-it202-010-prod-b44e1de4d69c.herokuapp.com/M2/problem3.php>



URL <https://jjc88-it202-010-prod-b44e1d>



URL #2

[https://github.com/juicejoose/jjc88-it202-010/M2-Homework/public\\_html/M2/problem3.php](https://github.com/juicejoose/jjc88-it202-010/M2-Homework/public_html/M2/problem3.php)



URL <https://github.com/juicejoose/jjc88>



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### Item:#3

**Weight: 40%**

**Details:**

Briefly explain **how** the code solves the challenges (note: this isn't the same as **what** the code does)

#### ≡ Text Prompt

Your Response:

jjc88 02-25-2025 Will go through array with an foreach and implement an if statement where negative numbers will be converted to positive and stored. Else is stored original value. Iterates through the index. If number is less than 0 it will convert to +. If number is not less than 0, then store original.



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## Section #4: ( 2 pts.) Problem 4 - Strings

Task #1 ( 2 pts.) - Edit the `transformText` function to solve the cha

### Combo Task:

**Weight: 100%**

**Objective:** Edit the `transformText` function to solve the challenges

**Details:**



- Only make edits where noted via provided comments
- Challenge 1: Remove non-alphanumeric characters except spaces
- Challenge 2: Convert text to Title Case
- Challenge 3: Trim leading/trailing spaces and remove duplicate spaces
- Result 1-3: Assign final phrase to `placeholderForModifiedPhrase`
- Step 1: sketch out plan using comments (include ucid and date)
- Step 2: Add/commit your outline of comments (required for full credit)
- Step 3: Add code to solve the problem (add/commit as needed)

## Item:#1

Weight: 40%

### Details:

Two screenshots are expected

1. Snippet of relevant code showing solution (with ucid/date comment)
2. Full output of executing the program (visit the proper file on Heroku dev after a manual deploy)


## Image Prompt



The screenshot shows a code editor with a Ruby script. The script includes comments for each challenge and the corresponding code. The code uses `gsub` for removing non-alphanumeric characters, `capitalize` for title case, and `gsub` with a regular expression for trimming spaces and removing duplicates. The final result is assigned to `placeholderForModifiedPhrase`.


Code





The screenshot shows a terminal window with the output of the Ruby script. The output is a single line of text: "The quick brown fox jumps over the lazy dog".

heroku





The screenshot shows a terminal window with the output of the Ruby script. The output is a single line of text: "The quick brown fox jumps over the lazy dog".

```
Task #1: *
  transformText: function (text) {
    // TODO: Implement the transformText function
    // Return the transformed text
    return text;
  }
}

// Example usage
const transformer = new TextTransformer();
const result = transformer.transformText('Hello, World!');
console.log(result);
```

heroku 2



```
Task #1: *
  transformText: function (text) {
    // TODO: Implement the transformText function
    // Return the transformed text
    return text;
  }
}

// Example usage
const transformer = new TextTransformer();
const result = transformer.transformText('Hello, World!');
console.log(result);
```

heroku 3



```
Task #1: *
  transformText: function (text) {
    // TODO: Implement the transformText function
    // Return the transformed text
    return text;
  }
}

// Example usage
const transformer = new TextTransformer();
const result = transformer.transformText('Hello, World!');
console.log(result);
```

heroku 4



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Item:#2

Weight: 20%

Details:

- Direct link to the file in the homework related branch from Github (should end in `.php`)
- Direct link to the file on Heroku Prod (visit the proper file on Heroku dev after a manual deploy)

 Url Prompt

URL #1



URL



## Combo Task:

**Weight:** 45%

**Objective:** Edit the `transformText` function to solve the extra credit challenge (challenge 4)

**Details:**

- Only make edits where noted via provided comments
- Challenge 4: Extract middle 3 characters (beginning starts at middle of phrase)
- Assign result to 'placeholderForMiddleCharacters'
- If not enough characters assign "Not enough characters"
- Step 1: sketch out plan using comments (include ucid and date)
- Step 2: Add/commit your outline of comments (required for full credit)
- Step 3: Add code to solve the problem (add/commit as needed)

## Item:#1

**Weight:** 40%

**Details:**

Two screenshots are expected

1. Snippet of relevant code showing solution (with ucid/date comment)
2. Full output of executing the program (visit the proper file on Heroku dev after a manual deploy)

## Image Prompt



Missing Caption



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## Item:#3

Briefly explain **how** the code solves the extra credit challenge (note: this isn't the same as **what** the code does)

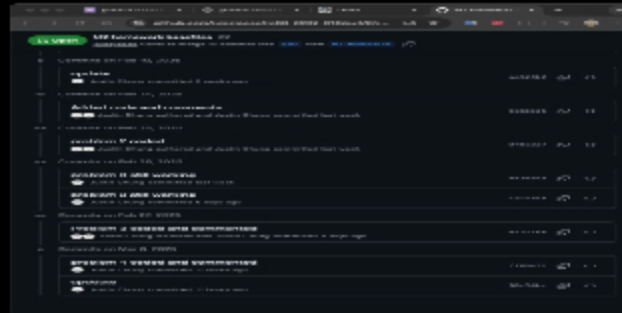
## Missing Response



## Task #1 ( 0.67 pts.) - Github Details

[illegible]

github commit 1



commit 2



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Item:#2

Weight: 40%

Details:

Include the link to the Pull Request (should end in `/pull/#`)

## Task #2 ( 0.67 pts.) - WakaTime - Activity

Weight: 33.33%

Objective: *WakaTime - Activity*

Details:

- Visit the WakaTime.com Dashboard
- Click `Projects` and find your repository
- Capture the overall time at the top that includes the repository name
- Capture the individual time at the bottom that includes the file time
- Note: The duration isn't relevant for the grade and the visual graphs aren't necessary



Image Prompt

6 hrs 29 mins over the Last 7 Days in jlc00-It202-010 under all branches. 6

showing time



**Life insurance**

1. For 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838.

[illegible]

### Task #3 ( 0.67 pts.) - Reflection

### Sub-Tasks:

### Task #1 ( 0.33 pts.) - What did you learn?

**Weight: 33.33%**

**Objective:** *What did you learn?*

**Details:**

**Briefly answer the question (at least a few decent sentences)**

### ≡ **Text Prompt**

**Your Response:**

I learned alot about php but it is similar to other laungauges. I learned new code and how to utilize as well as using github and heroku. Slowly understanding how they all work together.



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**Task #2 ( 0.33 pts.) - What was the easiest part of the assignment?**

**Weight:** 33.33%

**Objective:** *What was the easiest part of the assignment?*

**Details:**

Briefly answer the question (at least a few decent sentences)

### Text Prompt

Your Response:

Easiest part were problem 1 and 2. Everything else was decent amount of work, at least for me.



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## Task #3 ( 0.33 pts.) - What was the hardest part of the assign

**Weight:** 33.33%

**Objective:** *What was the hardest part of the assignment?*

**Details:**

Briefly answer the question (at least a few decent sentences)

### Text Prompt

Your Response:

Learning php, how to use github, heroku, and VS code as it is familiar to me I haven't used to this extent. Later problems such as 3 and 4 had me thinking.



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