```
                                                    input
main.c:11:4: warning: implicit declaration of function 'partition' [-Wimplicit-function-declaration]
  s=partition(a,low,high);
    ^~~~~~~~~
=======================================

 To sort the Integer elements using Quick Sort Method

=======================================


Enter the Number of elements to be sorted which is less than the array size 500
10

~~ OUTPUT ~~
The Inputs generated by Random Number Generated are
383 886 777 915 793 335 386 492 649 421

Time taken is 0.000003

 Sorted Integer Array
335 383 386 421 492 649 777 793 886 915

** Analysis of Quick Sort Algorithm **

The Basic Operation of Quick Sort algorithm are Comparision and Swap
The number of Comparisions are : 23 units
The number of Swaps are : 10 units

 * Thank You *


...Program finished with exit code 255
Press ENTER to exit console.
```

```
                                                        input
Enter the Number of elements to be sorted which is less than the array size 500
300

~~ OUTPUT ~~
The Inputs generated by Random Number Generated are
383 886 777 915 793 335 386 492 649 421 362 27 690 59 763 926 540 426 172 736 211 368 567 429 782 530 862 123 67 135 929 802 22 58 69 167 393 456 11 42 229 373 421 919
784 537 198 324 315 370 413 526 91 980 956 873 862 170 996 281 305 925 84 327 336 505 846 729 313 857 124 895 582 545 814 367 434 364 43 750 87 808 276 178 788 584 403
651 754 399 932 60 676 368 739 12 226 586 94 539 795 570 434 378 467 601 97 902 317 492 652 756 301 280 286 441 865 689 444 619 440 729 31 117 97 771 481 675 709 927 56
7 856 497 353 586 965 306 683 219 624 528 871 732 829 503 19 270 368 708 715 340 149 796 723 618 245 846 451 921 555 379 488 764 228 841 350 193 500 34 764 124 514 987
856 743 491 227 365 859 936 432 551 437 228 275 407 474 121 858 395 29 237 235 793 818 428 143 11 928 529 776 404 443 763 613 538 606 840 904 818 128 688 369 917 917 99
6 324 743 470 183 490 499 772 725 644 590 505 139 954 786 669 82 542 464 197 507 355 804 348 611 622 828 299 343 746 568 340 422 311 810 605 801 661 730 878 305 320 736
 444 626 522 465 708 416 282 258 924 637 62 624 600 36 452 899 379 550 468 71 973 131 881 930 933 894 660 163 199 981 899 996 959 773 813 668 190 95 926 466 84 340

Time taken is 0.000034

 Sorted Integer Array
11 11 12 19 22 27 29 31 34 36 42 43 58 59 60 62 67 69 71 82 84 84 87 91 94 95 97 97 117 121 123 124 124 128 131 135 139 143 149 163 167 170 172 178 183 190 193 197 198
199 211 219 226 227 228 228 229 235 237 245 258 270 275 276 280 281 282 286 299 301 305 305 306 311 313 315 317 320 324 324 327 335 336 340 340 340 343 348 350 353 355
362 364 365 367 368 368 368 369 370 373 378 379 379 383 386 393 395 399 403 404 407 413 416 421 421 422 426 428 429 432 434 434 437 440 441 443 444 444 451 452 456 464
465 466 467 468 470 474 481 488 490 491 492 492 497 499 500 503 505 505 507 522 526 528 529 530 537 538 539 540 542 545 550 551 555 567 567 568 570 582 584 586 586 590
600 601 605 606 611 613 618 619 622 624 624 626 637 644 649 651 652 660 661 668 669 675 676 683 688 689 690 708 708 709 715 723 725 729 729 730 732 736 736 739 743 743
746 750 754 756 763 763 764 764 771 772 773 776 777 782 784 786 788 793 793 795 796 801 802 804 808 810 813 814 818 818 828 829 840 841 846 846 856 856 857 858 859 862
862 865 871 873 878 881 886 894 895 899 899 902 904 914 915 917 917 919 921 924 925 926 926 927 928 929 930 932 933 936 954 956 959 965 973 980 981 987 996 996 996

** Analysis of Quick Sort Algorithm **

The Basic Operation of Quick Sort algorithm are Comparision and Swap
The number of Comparisions are : 2424 units
The number of Swaps are : 591 units

 * Thank You *

...Program finished with exit code 255
Press ENTER to exit console.
```