

## COLLEGE OF ENGINEERING, PUNE

Wellesly Road, Shivajinagar, Pune- 411 005

| <u>.</u> |  |
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|          | URVI ASHTURKAR 111803037 PPL ASSIGNMENT 2  |
|          |  |
| 1)       | Stack smashing: Perform stack smashing of draw stack frame.  |
| ,        |  |
|          | int main() {   |
|          | int i;   |
|          | char our [] = {'a', 'b'}; c', 'd'};  |
|          | for(i=0; i<51; i++)  |
|          | ar [i] = 'A';  |
|          | return 0; 200 1 20 |
|          | A A A A A A A A A A A A A A A A A A A  |
|          | rspo rspo rspo rspo h  |
|          | 1000 rbp. 1000 x rbp. 1000 1000 1000 1000 1000 1000 1000 10  |
|          | Z. / / Z. YOV, T   |
|          | 1a' 2 sbp, -10 2 2 15 15   |
|          | - 10 2 10 10 10 10 10 10 10 10 10 10 10 10 10  |
|          | 1 1 1 2 1 2 1 1 0 1 1 1 1 1 1 1 1 1 1 1  |
|          |  |
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| PUNE  |  |          | · ·                                   |  |   |  |
|-------|--|----------|---------------------------------------|--|---|--|
|       | Delug recursive program q                            |          |                                       |  |   |  |
| 2)    | 2) Recursive function (factorial): draw stack frame. |          |                                       |  |   |  |
|       |  |          |                                       | \  |   |  |
|       | int fact (i  |          |                                       | int main(){                                    |   |  |
|       | if (ic   |          |                                       | int $n = 5, f$ ;                               | • |  |
|       |  | m1;      |                                       | f = fact(n);                                   |   |  |
|       | else   |          |                                       | return 0;                                      |   |  |
|       | return (i * fact (i-1)); }                           |          |                                       |  |   |  |
|       | <u> </u>   |          | ·                                     |  |   |  |
| -     |  |          | 1                                     |  |   |  |
|       | Y. P>  | rbpo_    |                                       | // eax : X 2 6 24 120                          |   |  |
|       | 18P1 ->  | 10       | < Yopi                                | 1-edi: 5 x \$ 2 1                              | - |  |
|       |  | 5        | < 11p, -8                             | <i>Y</i> • • • • • • • • • • • • • • • • • • • |   |  |
|       |  | ripmain  | (i=5)                                 |  |   |  |
|       | 78P2 >   | rbpi     | Yop_                                  |  |   |  |
|       | 12   | rip fact | (i=5)                                 |  |   |  |
|       | Vsp3 >   | rbp2     | < Yop3                                |  |   |  |
|       | 13   | ripfact  | (i=4)                                 |  |   |  |
|       | Y8P4 ->  | rbp3     | < xbp4                                |  |   |  |
|       |  | ripfact  | (i = 3)                               | · .  |   |  |
|       | Y5P5 >   | rbp4     | CY6P5                                 |  |   |  |
|       |  | rip fact | (i=2)                                 |  |   |  |
|       | 1886   | MoP5     | c oppo                                |  |   |  |
|       |  |          | ,                                     |  |   |  |
| 2510) |  |          | (                                     | ,        |   |  |
| 23,   |  |          | ← Aopo                                |  |   |  |
|       |  |          | · · · · · · · · · · · · · · · · · · · |  |   |  |
|       |  |          |                                       |  |   |  |
|       |  |          |                                       |  |   |  |
|       |  |          |                                       |  |   |  |