| The Number of Action | 3 | 101 | 1001 | 2001 |
|----------------------------|------|------|------|------|
| Sparse+SparseBellman-1 | 1164 | 692 | 742 | 864 |
| Sparse+SparseBellman-0.1 | 1060 | 2923 | 3998 | 599 |
| Sparse+SparseBellman-0.01 | 685 | 1431 | 1010 | 811 |
| Sparse+SoftBellman-1 | 863 | 1316 | 1698 | 657 |
| Sparse+SoftBellman-0.1 | 914 | 901 | 857 | 802 |
| Sparse+SoftBellman-0.01 | 3342 | 907 | 3930 | 522 |
| Sparse+Bellman-1 | 879 | 668 | 2337 | 3137 |
| Sparse+Bellman-0.1 | 937 | 3925 | 773 | 1030 |
| Sparse+Bellman-0.01 | 999 | 329 | 962 | 962 |
| Soft+SparseBellman-1 | 3789 | 3416 | 3996 | 2684 |
| Soft+SparseBellman-0.1 | 3844 | 2835 | 1494 | 2771 |
| Soft+SparseBellman-0.01 | 854 | 545 | 3814 | 999 |
| Soft+SoftBellman-1 | 1885 | 3666 | 3994 | 3912 |
| Soft+SoftBellman-0.1 | 869 | 780 | 787 | 3871 |
| Soft+SoftBellman-0.01 | 533 | 1241 | 2565 | 3020 |
| Soft+Bellman-1 | 3898 | 3947 | 3978 | 3758 |
| Soft+Bellman-0.1 | 876 | 1923 | 954 | 807 |
| Soft+Bellman-0.01 | 1419 | 689 | 755 | 1265 |
| EpsGrdy+SparseBellman-1 | 3978 | 3993 | 4000 | 3863 |
| EpsGrdy+SparseBellman-0.1 | 3895 | 2449 | 4000 | 3910 |
| EpsGrdy+SparseBellman-0.01 | 3437 | 4000 | 3962 | 3777 |
| EpsGrdy+SoftBellman-1 | 2959 | 3919 | 3715 | 4000 |
| EpsGrdy+SoftBellman-0.1 | 3997 | 3969 | 3037 | 2509 |
| EpsGrdy+SoftBellman-0.01 | 3976 | 3936 | 3785 | 3784 |
| EpsGrdy+Bellman-1 | 4000 | 2603 | 1093 | 3969 |
| EpsGrdy+Bellman-0.1 | 2584 | 3897 | 3160 | 3846 |
| EpsGrdy+Bellman-0.01 | 3891 | 3699 | 3905 | 3993 |