Assingment 4 19CS10060 Sunanda Mandal

Ans: (i) Artechnèque of C++ that allows us to write inline functions without a name

Ans: (1) The networn type of lambda expression can be neglected in some cases

And in 3

# include ( lo stream > # include (vector) # include < algorithm> using namespace std;

int main () 5 vector (int) are = \$1, 2, 3, 6, 4,9 },

sort ( wor, begin (), avor, end (), [] (int &a, end b) }

retwin a >6; ?); retwon 0;

# include (iostream)

# include (vector > # include (algorithm) using namespace Atd;

int main () {

vector (int) ave = {1, 2, 3, 6, 1, 9}; ent count Even

= (avr.begen (), avv. end (), [] (intla) {

meturn a/. 2 = = 0; });

return 0;

1. ( ) # include (costpeam)

```
int main() {

int m = 1024;

auto modify = [&7]) {

// Lo some modification to n. for example i

n = 2;

modify();

retwin 0;
```

2 a # include (108/14eam)
using namespace std;

class TOH ?

public: void operation () (int n, char from r, char to-r, char

if (n = 0), retwin;

(\* this) (n-1, from\_r, aux r, to-r);

cout << "Move disk" << n < "from stack" << from r <

"to stack" < to\_r << endl;

(\* this) (n-1, aux-r, to-r, from-r);

3

ξ;

continue.

int num\_disk;

cin >> num\_disk;

hanvi (num\_disk, 'A', 'B', 'C'),

netwin 0;

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        fundons
         # include < costneam)
        # include < string >
       # include (algorithm)
          Using namestace Std;
        class Permute }
            public:
               wild operator () (string word, int l, int r) }
                    if (l = r)
cout \ll word \ll endl;
else g
                       for (int e=l; i <=r; i++) {
                            swap (word [l], word[i]);
(*this) (word, l+1, r);
swap (word[i], word[i]);
       int main () }
            Permate feall;
            string s
             cen >> 8;
             feall (8, 0, 8. 217e(1-1);
            return o;
```

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```
# enclude (egstream)
 # include < stoing >
# include < functional >
  Using namespace Std;
 int main() }
     string s;
      con»,8;
     function void (int, int) permute = [4] (int 1, int r) {
         if(\ell = = p)
             cout << &Kendl;
           for (ent e=l; e<=r; i+r) {
               swap (8[1], 8[i]);
permute (l+1, r);
              swap (8[1], 8[i]);
permute(0, 8. &i +()-1)
retwin 0;
```